

100/300 AREA UNIT MANAGERS MEETING
APPROVAL OF MINUTES
April 12, 2007

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EDMC

APPROVAL:



Date

MAY 10, 2007

Kevin D. Bazzell, DOE/RL (A3-04)
River Corridor Project Manager

APPROVAL:

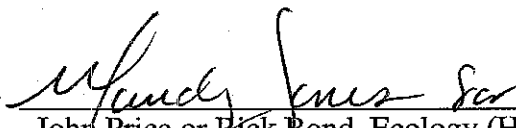


Date

May 10, 2007

Briant Charboneau, DOE/RL (A6-33)
Groundwater Project Manager

APPROVAL:

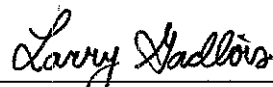


Date

May 10, 2007

John Price or Rick Bond, Ecology (H0-57)
Environmental Restoration Manager or D4
Manager

APPROVAL:

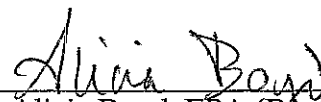


Date

May 10, 2007

Larry Gadbois or Dennis Faulk, EPA
(B1-46)
100 Aggregate Area Unit Manager

APPROVAL:



Date


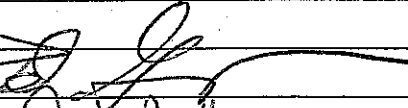
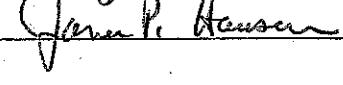
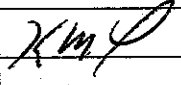
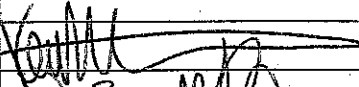

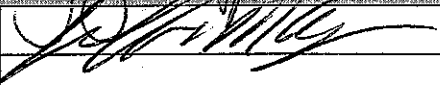
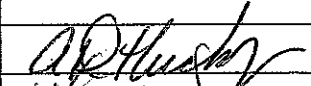
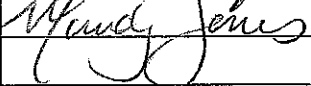
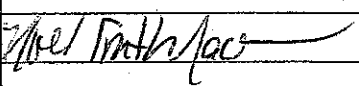

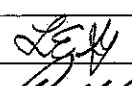

May 10, 2007

Alicia Boyd, EPA (B4-46)
300 Aggregate Area Unit Manager

100/300 AREA UNIT MANAGER MEETING

ATTENDANCE AND DISTRIBUTION

April 12, 2007

NAME	E-MAIL ADDRESS	MSIN	COMP	SIGNATURE
Cook, Sylvia	Original +1 copy	H6-08	ADREC	N/A
Bazzell, Kevin D	Kevin_D_Bazzell@rl.gov	A3-04	DOE	
Charboneau, Briant L	Briant_L_Charboneau@rl.gov	A6-33	DOE	
Clark, Clifford E	Clifford_E_Cliff_Clark@rl.gov	A5-15	DOE	
Guercia, Rudolph F	Rudolph_F_Rudy_Guercia@rl.gov	A3-04	DOE	
Hanson, James P	James_P_Hanson@rl.gov	A5-13	DOE	
Hildebrand, R Doug	R_D_Doug_Hildebrand@rl.gov	A6-38	DOE	
Johnson, Vernon G	Vernon_G_Johnson@rl.gov	N/A	DOE	
Morse, John G	John_G_Morse@rl.gov	A6-11	DOE	
Sands, John P	John_P_Sands@rl.gov	A3-04	DOE	
Smith, Chris	Douglas_C_Chris_Smith@rl.gov	A3-04	DOE	
Thompson, Mike	K_M_Mike_Thompson@rl.gov	A6-38	DOE	
Tortoso, Arlene C	Arlene_C_Tortoso@rl.gov	A6-38	DOE	
Westover, Kent R	Kent_R_Westover@rl.gov	A3-04	DOE	
Zeisloft, Jamie	Jamie_Zeisloft@rl.gov	A3-04	DOE	
Ayres, Jeffrey M	JAYR461@ECY.WA.GOV	H0-57	ECO	
Bond, Fredrick W	FBON461@ECY.WA.GOV	H0-57	ECO	
Goswami, Dib	DGOS461@ECY.WA.GOV	H0-57	ECO	
Huckaby, Alisa D	AHUC461@ECY.WA.GOV	H0-57	ECO	
Jones, Mandy	MJON461@ECY.WA.GOV	H0-57	ECO	
Price, John	JPRI461@ECY.WA.GOV	H0-57	ECO	
Rochette, Elizabeth	BROC461@ECY.WA.GOV	H0-57	ECO	
Shea, Jacqueline	JASH461@ECY.WA.GOV	H0-57	ECO	
Smith-Jackson, Noel	NSMI461@ECY.WA.GOV	H0-57	ECO	
Vanni, Jean	Jvan461@ECY.WA.GOV	H0-57	ECO	
Whalen, Cheryl	CWHA461@ECY.WA.GOV	H0-57	ECO	
Boyd, Alicia	BOYD.ALICIA@EPA.GOV	B1-46	EPA	
Faulk, Dennis A	FAULK.DENNIS@EPA.GOV	B1-46	EPA	
Gadbois, Larry E	GADBOIS.LARRY@EPA.GOV	B1-46	EPA	
Lobos, Rod	LOBOS.ROD@EPA.GOV	B1-46	EPA	

100 & 300 AREA UNIT MANAGER MEETING MINUTES

Groundwater, Source Operable Units, Facility (D4 and ISS), and End State and Final Closure

April 12, 2007

Washington Closure Hanford (WCH) Building, 2620 Fermi Drive, Richland, Washington

ADMINISTRATIVE

- Next Unit Manager Meeting (UMM) - The March 8, 2007 UMM was cancelled. The next meeting will be held May 10, 2007 at the Washington Closure Hanford (WCH) Office Building, 2620 Fermi Avenue, room C209.
- Attendees/Delegations - Attachment A is the list of attendees. Representatives from each agency were present to conduct the business of the Unit Managers Meeting. Attachment B documents any delegations received from the regulatory agencies.
- Approval of Minutes - The February 8, 2007 meeting minutes were approved by the U.S. Environmental Protection Agency (EPA), Washington State Department of Ecology (Ecology), and U.S. Department of Energy, Richland Operations Office (RL). Since the March 2007 UMM was cancelled, the February 8, 2007 meeting minutes were approved earlier.
- Action Item Status - Status of action items was performed, and updates provided (Attachment C).
- Agenda: Attachment D is the meeting agenda.

EXECUTIVE SESSION (Tri-Parties Only)

Facility Completion Forms for D4 Actions: Attachment 1 is a proposed draft of how to document completion of D4 actions in the 100 and 300 Areas, including a draft completion form. EPA and Ecology agreed that D4 completion forms are necessary and that use of them will be made on a case by case basis by the lead regulatory agency until the process is incorporated into the Removal Action Work Plans.

Action: RL shall develop the instructions for documenting D4 completions in the 100 and 300 Areas where no known waste site is under the building, and no releases to soil are documented or expected based on existing data. These instructions shall be added into the respective Removal Action Work Plans after review and approval from the respective lead regulatory agency for the specific Removal Action Work Plans in the 100 and 300 Areas.

100 AREA GROUNDWATER

Attachment 2 provides a status or information. Attachment 3 is an integrated schedule with groundwater and soil remediation activities for the 100-D Area. No issues were identified, no agreements were documented, and no actions were documented. However, the following was inadvertently omitted in Attachment 2, which was RL briefed Ecology on the locations of characterization wells that are planned in the Horn Area. A sampling and analysis instruction will be submitted to Ecology for their review.

300 AREA GROUNDWATER

Attachment 2 provides a status or information. No issues were identified, no agreements were documented, and no actions were documented.

GROUNDWATER/SOURCE OPERABLE UNIT INTEGRATION

No issues were identified, no agreements were documented, and no actions were documented.

100 AREA FIELD REMEDIATION CLOSURE

Attachments 4, 6, 7, and 8 provide a status or information for various projects in the 100 Area Field Remediation (FR) Project. Attachment 5, Attachment 9, and Attachment 10 document agreements and are specified below. Attachment 4 covers 100-B/C. Attachment 6 covers sampling and design. Attachment 7 covers 118-K-1. Attachment 8 covers 100-D. No issues were identified.

Agreement 1: Attachment 5 documents an agreement from EPA on the backfill concurrence of the 118-B-1 burial ground staging pile area, overburden soils, and below cleanup level (BCL) material.

Agreement 2: Attachment 9 documents an agreement from EPA on establishment of waste staging areas for two waste sites at 100-F (100-F-26 and 118-F-8:4 waste sites).

Agreement 3: Attachment 10 documents an agreement from EPA and Ecology, in various electronic mail messages, on the criteria and disposition of material spilled in clean areas used to support CERCLA cleanup activities.

Action: RL provided EPA and Ecology a draft of proposed revisions/additions to specific areas of the various Remedial Design Report/Remedial Action Work Plans to address key subject areas discussed in the December 14, 2006 UMM (e.g., spill protocol, notifications, anomalous waste, backfill versus stabilizing)[Attachment 11]. In the January 11, 2007 UMM, EPA and Ecology agreed for RL to draft the initial language and provide a draft to EPA and Ecology. EPA and Ecology indicated they would review.

300 AREA FIELD REMEDIATION CLOSURE

No issues were identified, and no actions were documented.

Agreement: Attachment 12 documents an agreement from EPA to conduct sampling of confirmatory waste sites without the need for an air monitoring plan. If remediation is necessary an air monitoring plan shall be developed or revised to include the waste site.

DEACTIVATION, DECONTAMINATION, DECOMMISSION, DEMOLITION (D4)

Attachment 13 provides a status or information for the 300 Area, while Attachment 14 provides a status or information for the 100 Area. No issues were identified, and no actions were documented.

Agreement: Ecology provided approval to backfill the 1312-N liquid effluent retention facility site.

INTERIM SAFE STORAGE (ISS)

Attachment 15 provides a status or information. No issues were identified, no agreements were documented, and no actions were documented.

ENVIRONMENTAL RESTORATION DISPOSAL FACILITY (ERDF)

No issues were identified, no agreements were documented, and no actions were documented.

END STATE AND FINAL CLOSURE PROJECT

Attachment 16 provides a status or information. No issues were identified.

Agreement: Attachment 17 documents a series of agreements from EPA and Ecology from January to March 2007 on the Inter-Area Component of the River Corridor Baseline Risk Assessment. EPA and Ecology agreed to include this documentation in these meeting minutes.

Action: RL will follow up with EPA on any past or future land evaluations of the southern 300 Area referred to as the "triangle area" where new construction is starting.

SPECIAL TOPICS

No special topics were discussed. No issues were identified, no agreements were documented, and no actions were documented.

Attachment A

Borghese, Jane V	Jane_V_Borghese@rl.gov	E6-35	FH	<i>Jane V Borghese</i>
Fabre, Russel J	Russel_J_Fabre@rl.gov	E6-35	FH	<i>Present</i>
Jackson, Ron	Ronald_L_Jackson@rl.gov	E6-35	FH	<i>Ron Jackson</i>
Piippo, Rob	Robert_E_Piippo@rl.gov	H8-12	FH	
Winterhalder, John A	John_A_Winterhalder@rl.gov	E6-35	FH	
Fruchter, Jonathan S	john.fruchter@pnl.gov	K6-96	PNNL	<i>J Fruchter</i>
Hartman, Mary J	mary.hartman@pnl.gov	K6-96	PNNL	<i>Mary J Hartman</i>
Luttrell, Stuart P		K6-96	PNNL	
Peterson, Robert E	robert.peterson@pnl.gov	K6-75	PNNL	<i>Present</i>
Cimon, Shelly <i>boy</i>	scimon@oregontrail.net		Oregon	<i>Shelly Cimon</i>
Lilligren, Sandra	sandra@nezperce.org		TRIBES	
Bignell, Dale	Dale.Bignell@wch-rcc.com	H4-25	WCH	<i>D Bignell</i>
Buckmaster, Mark A	mark.buckmaster@wch-rcc.com	X9-07	WCH	<i>Mark A Buckmaster</i>
Callison, Stacey W	stacey.callison@wch-rcc.com	X9-07	WCH	
Carlson, Richard A	richard.carlson@wch-rcc.com	X4-08	WCH	
Clapper, Nicholas	Nicholas.clapper@wch-rcc.com	X3-16	WCH	
Clark, Steven W	steven.clark@wch-rcc.com	H4-23	WCH	
Corpuz, Franklin M	franklin.corpuz@wch-rcc.com	L6-06	WCH	
Darby, John W	john.darby@wch-rcc.com	L6-06	WCH	
DeLozier, Mary P (Fran)	fran.delozier@wch-rcc.com	H4-22	WCH	
Dieterle, Steven E	steven.dieterle@wch-rcc.com	L1-04	WCH	
Dietz, Linda A	linda.dietz@wch-rcc.com	H4-22	WCH	
Dittmer, Lorna M	lorne.dittmer@wch-rcc.com	H4-23	WCH	<i>Lorna M Dittmer</i>
Donnelly, Jack W	jack.donnelly@wch-rcc.com	H4-22	WCH	<i>Jack W Donnelly</i>
Fancher, Jonathan D (Jon)	jon.fancher@wch-rcc.com	X9-08	WCH	<i>J. D. Fancher</i>
Gano, Kenneth A (Ken)	kenneth.gano@wch-rcc.com	H4-21	WCH	
Golden, James W	james.golden@wch-rcc.com	X4-08	WCH	<i>Present</i>
Hadley, Karl A	karl.hadley@wch-rcc.com	X0-18	WCH	<i>K A Hadley</i>
Hedel, Charles W	charles.hedel@wch-rcc.com	H4-22	WCH	
Hulstrom, Larry C	larry.hulstrom@wch-rcc.com	H4-22	WCH	
Koegler, Kim J	kim.koegler@wch-rcc.com	L1-07	WCH	
Landon, Roger J	roger.landon@wch-rcc.com	H4-21	WCH	
LaRue, Deena N	deena.larue@wch-rcc.com	H4-15	WCH	
Lerch, Jeffrey A	jeffrey.lerch@wch-rcc.com	H4-22	WCH	
Ludowise, John D	john.ludowise@wch-rcc.com	X4-08	WCH	
Miller, Larry R (Rex)	rex.miller@wch-rcc.com	X4-08	WCH	

Attachment B

Donnelly, Jack W

From: Bond, Rick (ECY) [FBON461@ECY.WA.GOV]
Sent: Monday, April 09, 2007 4:30 PM
To: Donnelly, Jack W
Subject: RE: 100/300 Area UMM April 12, 2007 Draft Agenda

Jack,
I can't make the UMM on Thursday but I do not want to get into this delegation thing if I can avoid it. Jeff Ayres will attend. He is the Unit Manager for the 100 and 300 Areas working for me. As Unit Manager, he already has full authority to make decisions at the Unit Manager Meeting. Thus, I think we're all set and I don't need to delegate. Hope this works but let me know if you disagree.

Thanks,
Rick

-----Original Message-----

From: Donnelly, Jack W [mailto:jack.donnelly@wch-roc.com]
Sent: Monday, April 09, 2007 10:25 AM
To: Ayres, Jeff (ECY); Bazzell, Kevin D; Bond, Rick (ECY); Borghese, Jane V; Boyd, Alicia; Callison, Stacey W; Carlson, Richard A; Charboneau, Briant L; Clark, Clifford E; Clark, Steven W; Corpuz, Franklin M; Darby, John W; Einan, David R; Fabre, Russel J; Faulk, Dennis A; Fruchter, Jonathan S; Gadbois, Larry E; Goswami, Dib (ECY); Guercia, Rudolph F; Hartman, Mary J; Huckaby, Alisa (ECY); Jackson, Ron; Johnson, Vernon G; Lobos, Rod; Morse, John G; Peterson, Robert E; Phippo, Rob; Price, John (ECY); Robertson, Owen C; Sands, John P; Smith, Chris; Smith-Jackson, Noel (ECY); Thompson, Mike; Tortoso, Arlene C; Vanni, Jean (ECY); Westover, Kent R; Winterhalder, John A; Zelsloft, Jamie
Subject: FW: 100/300 Area UMM April 12, 2007 Draft Agenda
Importance: High

Good morning:

This message was returned as being undelivered so I am resending. Additionally, there has been some discussion and questions on adding ERDF to the agenda for integration purposes and general sharing of information. If there is no real objection please let me know and I will add that to the agenda.

Respectfully, Jack Donnelly

From: Donnelly, Jack W
Sent: Monday, April 09, 2007 9:46 AM
To: Donnelly, Jack W; 'Ayres, Jeffrey M'; 'Bazzell, Kevin D'; Bignell, Dale T; 'Bond, Fredrick W'; 'Borghese, Jane V'; 'Boyd, Alicia'; Buckmaster, Mark A; Brosee, Manfred N; 'Callison, Stacey W'; 'Carlson, Richard A'; 'Charboneau, Briant L'; 'sdimon@oregontrail.net'; 'Clark, Clifford E'; 'Clark, Steven W'; 'Corpuz, Franklin M'; 'Darby, John W (300 Area TL)'; DeLozier, Mary P (Fran); Dieterle, Steven E; Dietz, Linda A; Dittmer, Lorna M; 'Fabre, Russel J'; Fancher, Jonathan D (Jon); 'Faulk, Dennis A'; 'Fruchter, Jonathan S'; 'Gadbois, Larry E'; Gano, Kenneth A (Ken); Golden, James W; 'Goswami, Dib'; 'Guercia, Rudolph F'; Hadley, Karl A; 'Hartman, Mary J'; Hedel, Charles W; 'Huckaby, Alisa D'; Hulstrom, Larry C; 'Jackson, Ron'; 'Johnson, Vernon G'; 'mjon461@ecy.wa.gov'; Koegler, Kim J; Landon, Roger J; LaRue, Deena N; Lerch, Jeffrey A; 'sancral@nezperce.org'; 'Lobos, Rod'; Ludowise, John D; Miller, Larry R (Rex); 'Morse, John G'; Obenauer, Dale F; Ovink, Roger W; Pamell, Scott E; 'Peterson, Robert E'; 'Phippo, Rob'; 'Price, John'; Proctor, Megan L; Queen, Jackie M; 'Rochette, Elizabeth'; 'Sands, John P'; Saueressig, Daniel G; 'Jash461@ecy.wa.gov'; Smet, Ann K; 'Smith, Chris'; 'Smith-Jackson, Noel'; Strom, Dean N; Swartz, Joseph M (Mike); 'Thompson, Mike'; Thomson, Jill E; 'Tortoso, Arlene C'; 'Vanni, Jean'; Vedder, Barry L; Weiss, Stephen G; 'Westover, Kent R'; 'Cwha461@ecy.wa.gov'; 'Winterhalder, John A'; Yasek, Donna M; 'Zelsloft, Jamie'
Subject: 100/300 Area UMM April 12, 2007 Draft Agenda
Importance: High

Good morning:

The next UMM is this Thursday, April 12, 2007 in Conference Room A110 at 2620 Fermi Avenue (WCH building) from 1:00 p.m. to 4:30 p.m. Attached is a draft agenda for your input. Input is needed by COB Wednesday, April 11, 2007.

In the interest of those traveling, if there is not an executive session, the UMM will start at 2:00 p.m. The executive session is from 1:00 p.m. to 1:50 p.m.

For those who need to delegate authority and are unable to attend, please send your delegation for the minutes. A final agenda will be sent Wednesday afternoon or early Thursday.

If there is anyone missing from distribution please let me know. Also, as a friendly note, please bring sufficient copies of the material to the meeting, and if you happen to not bring enough and someone needs a handout we can make extra copies. In that case, make sure you speak up.

Respectfully, Jack Donnelly

<< File: UMM-04-12-07 Agenda.doc >>

Donnelly, Jack W**From:** Price, John (ECY) [Jpri461@ECY.WA.GOV]**Sent:** Tuesday, April 10, 2007 7:29 AM**To:** Donnelly, Jack W; Ayres, Jeffrey M; Bazzell, Kevin D; Bond, Fredrick W; Borghese, Jane V; Boyd, Alicia; Callison, Stacey W; Carlson, Richard A; Charboneau, Briant L; Clark, Clifford E; Clark, Steven W; Corpuz, Franklin M; Darby, John W; Einan, David R; Fabre, Russel J; Faulk, Dennis A; Fruchter, Jonathan S; Gadbois, Larry E; Goswami, Dib; Guercia, Rudolph F; Hartman, Mary J; Huckaby, Alisa D; Jackson, Ron; Johnson, Vernon G; Lobos, Rod; Morse, John G; Peterson, Robert E; Piippo, Rob; Robertson, Owen C; Sands, John P; Smith, Chris; Smith-Jackson, Noe'I; Thompson, Mike; Tortoso, Arlene C; Vanni, Jean; Westover, Kent R; Winterhalder, John A; Zeisloft, Jamie**Cc:** Jones, Mandy (ECY); Shea, Jacqueline (ECY)**Subject:** Delegation for: 100/300 Area UMM April 12, 2007

I will be absent from the 100/300 Area Unit Manager Meeting on April 12, 2007. I delegate to Mandy Jones for that meeting, my TPA Project Manager authority. She has the necessary capabilities and experience to fulfill that role.

From: Donnelly, Jack W [mailto:jack.donnelly@wch-rcc.com]**Sent:** Mon 4/9/2007 10:24 AM**To:** Ayres, Jeff (ECY); Bazzell, Kevin D; Bond, Rick (ECY); Borghese, Jane V; Boyd, Alicia; Callison, Stacey W; Carlson, Richard A; Charboneau, Briant L; Clark, Clifford E; Clark, Steven W; Corpuz, Franklin M; Darby, John W; Einan, David R; Fabre, Russel J; Faulk, Dennis A; Fruchter, Jonathan S; Gadbois, Larry E; Goswami, Dib (ECY); Guercia, Rudolph F; Hartman, Mary J; Huckaby, Alisa (ECY); Jackson, Ron; Johnson, Vernon G; Lobos, Rod; Morse, John G; Peterson, Robert E; Piippo, Rob; Price, John (ECY); Robertson, Owen C; Sands, John P; Smith, Chris; Smith-Jackson, Noe'I (ECY); Thompson, Mike; Tortoso, Arlene C; Vanni, Jean (ECY); Westover, Kent R; Winterhalder, John A; Zeisloft, Jamie**Subject:** FW: 100/300 Area UMM April 12, 2007 Draft Agenda

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4/10/2007

Importance: High

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Respectfully, Jack Donnelly

<<UMM-04-12-07 Agenda.doc>>

Donnelly, Jack W**From:** Bazzell, Kevin D [Kevin_D_Bazzell@RL.gov]**Sent:** Thursday, April 12, 2007 9:59 AM**To:** Price, John; Donnelly, Jack W; Ayres, Jeffrey M; Bond, Fredrick W; Borghese, Jane V; Boyd, Alicia; Callison, Stacey W; Carlson, Richard A; Charboneau, Briant L; Clark, Clifford E; Clark, Steven W; Corpuz, Franklin M; Darby, John W; Einan, David R; Fabre, Russel J; Faulk, Dennis A; Fruchter, Jonathan S; Gadbois, Larry E; Goswami, Dib; Guercia, Rudolph F; Hartman, Mary J; Huckaby, Alisa D; Jackson, Ron; Johnson, Vernon G; Lobos, Rod; Morse, John G; Peterson, Robert E; Piippo, Rob; Robertson, Owen C; Sands, John P; Smith, Chris; Smith-Jackson, Noe'l; Thompson, Mike; Tortoso, Arlene C; Vanni, Jean; Westover, Kent R; Winterhalder, John A; Zeisloft, Jamie**Cc:** Jones, Mandy (ECY); Shea, Jacqueline (ECY); Bazzell, Kevin D**Subject:** Delegation for: 100/300 Area UMM April 12, 2007

I will not be available to attend the April 12th 100/300 Area UMM. In accordance with the allowances of TPA Action Plan, Section 4.1, I delegate my River Corridor Closure Project (RCCP) authority and responsibilities to Rudy Guercia.

Thanks,

Kevin

From: Donnelly, Jack W [mailto:jack.donnelly@wch-rcc.com]**Sent:** Mon 4/9/2007 10:24 AM**To:** Ayres, Jeff (ECY); Bazzell, Kevin D; Bond, Rick (ECY); Borghese, Jane V; Boyd, Alicia; Callison, Stacey W; Carlson, Richard A; Charboneau, Briant L; Clark, Clifford E; Clark, Steven W; Corpuz, Franklin M; Darby, John W; Einan, David R; Fabre, Russel J; Faulk, Dennis A; Fruchter, Jonathan S; Gadbois, Larry E; Goswami, Dib (ECY); Guercia, Rudolph F; Hartman, Mary J; Huckaby, Alisa (ECY); Jackson, Ron; Johnson, Vernon G; Lobos, Rod; Morse, John G; Peterson, Robert E; Piippo, Rob; Price, John (ECY); Robertson, Owen C; Sands, John P; Smith, Chris; Smith-Jackson, Noe'l (ECY); Thompson, Mike; Tortoso, Arlene C; Vanni, Jean (ECY); Westover, Kent R; Winterhalder, John A; Zeisloft, Jamie**Subject:** FW: 100/300 Area UMM April 12, 2007 Draft Agenda

Good morning:

This message was returned as being undelivered so I am resending. Additionally, there has been some discussion and questions on adding ERDF to the agenda for integration purposes and general sharing of information. If there is no real objection please let me know and I will add that to the agenda.

Respectfully, Jack Donnelly

From: Donnelly, Jack W**Sent:** Monday, April 09, 2007 9:46 AM**To:** Donnelly, Jack W; Ayres, Jeffrey M; Bazzell, Kevin D; Bignell, Dale T; Bond, Fredrick W; Borghese, Jane V; Boyd, Alicia; Buckmaster, Mark A; Brosee, Manfred N; Callison, Stacey W; Carlson, Richard A; Charboneau, Briant L; scimon@oregontrail.net; Clark, Clifford E; Clark, Steven W; Corpuz, Franklin M; Darby, John W (300 Area TL); DeLozier, Mary P (Fran); Dieterle, Steven E; Dietz, Linda A; Dittmer, Lorna M; Fabre, Russel J; Fancher, Jonathan D (Jon); Faulk, Dennis A; Fruchter, Jonathan S; Gadbois, Larry E; Gano, Kenneth A (Ken); Golden, James W; Goswami, Dib; Guercia, Rudolph F; Hadley, Karl A; Hartman, Mary J; Hedel, Charles W; Huckaby, Alisa D; Hulstrom, Larry C; Jackson, Ron; Johnson, Vernon G; mjon461@ecy.wa.gov; Koegler, Kim J; Landon, Roger J; LaRue, Deena N; Lerch, Jeffrey A; sandral@nezperce.org; Lobos, Rod; Ludowise, John D; Miller, Larry R (Rex); Morse, John G; Obenauer, Dale F; Ovink, Roger W; Parnell, Scott E; Peterson, Robert E; Piippo, Rob; Price, John; Proctor, Megan L; Queen, Jackie M; Rochette, Elizabeth; Sands, John P; Saueressig, Daniel G; Jash461@ecy.wa.gov; Smet, Ann K; Smith, Chris; Smith-Jackson, Noe'l; Strom, Dean N; Swartz, Joseph M (Mike); Thompson, Mike; Thomson, Jill E; Tortoso, Arlene C; Vanni, Jean; Vedder, Barry L;

Weiss, Stephen G; 'Westover, Kent R'; 'Cwaha461@ecy.wa.gov'; 'Winterhalder, John A'; Yasek, Donna M; 'Zeisloft, Jamie'

Subject: 100/300 Area UMM April 12, 2007 Draft Agenda

Importance: High

Good morning:

The next UMM is this Thursday, April 12, 2007 in Conference Room A110 at 2620 Fermi Avenue (WCH building) from 1:00 p.m. to 4:30 p.m. Attached is a draft agenda for your input. Input is needed by COB Wednesday, April 11, 2007.

In the interest of those traveling, if there is not an executive session, the UMM will start at 2:00 p.m. The executive session is from 1:00 p.m. to 1:50 p.m.

For those who need to delegate authority and are unable to attend, please send your delegation for the minutes. A final agenda will be sent Wednesday afternoon or early Thursday.

If there is anyone missing from distribution please let me know. Also, as a friendly note, please bring sufficient copies of the material to the meeting, and if you happen to not bring enough and someone needs a handout we can make extra copies. In that case, make sure you speak up.

Respectfully, Jack Donnelly

<<UMM-04-12-07 Agenda.doc>>

Attachment C

100/300 Area UMM

Action List

April 12, 2007

Open (O)/ Closed (X)	Action No.	Co.	Actionee	Project	Action Description	Status
X	100-003	RL	K. Bazzell	Field Remediation Closure	EPA and Ecology request DOE prepare a schedule for cleanup of the 200-CW-3 waste sites listed in the 100 Area Remaining Site Record of Decision.	Open: 7/13/06; Action: Closed 12/14/2006.
X	100-004	WC	L. Dittmer	Sample Design and Cleanup Verification	Present an errata sheet to provide consistent tritium cleanup levels between the 100 Area Burial Ground SAP and the 100 Area SAP.	Open: 7/31/06; Action: Closed 11/9/2006.
X	100-005	RL	K. Bazzell	General RCCC	EPA and Ecology request a meeting with the DOE person who can approve/disapprove language in the 100 Area Remedial Design Report. (Action associated with a proposed revision to the RDR to include descriptive language on ecorisk screening.)	Open: 7/13/06; Action: Closed 11/9/2006.
O	100-005B	EPA	L. Gadbois	General RCCC	Revise the 100 Area RDR to include more specific language on the methodology and process for conducting ecological risk screening during closeout process.	Open: 9/14/06; Action: Proposed language presented at 1/11/07 UMM. At the 4/12/07 UMM, EPA and Ecology requested a meeting with Ms. Dittmer and RL on an explanation of the recent changes to the original language, and requested a revision of the language to address the ecological risk at the next UMM.

100/300 Area UMM

Action List

April 12, 2007

Open (O)/ Closed (X)	Action No.	Co.	Actionee	Project	Action Description	Status
X	100-006	RL	J. Zeisloft	100-K Field Remediation	RL to provide EPA and Ecology a copy of the NorthWind Characterization Report for 118- K-1.	Open: 7/13/06; Action: Completed 10/26/06
X	100-007	RL	J. Zeisloft	100-K Field Remediation	RL provide EPA and Ecology the status of the AMEC Report on 118-K-1.	Open: 7/13/06; Closed: 8/10/06 Action did not occur
X	100-008	RL	K. Bazzell	Field Remediation	Provide WCH direction to evaluate other, existing, options for handling bottles containing liquids that are unearthed during remedial actions. Evaluate what is being done at other sites (Brookhaven; Sandia; DOE Lessons Learned website); evaluate how HAZM	Open: 9/14/06; Action: Completed 10/2/06
X	100-009	RL	R. Guercia	100-K D4	Send a copy of a building completion report (a quarterly report prepared to satisfy the DOE Order to take a facility "off the books.") as an alternate format of retrievable documentation.	Open: 9/14/06; Action: Complete 9/15/06
X	300-002	PN	B. Peterson M. Hartman	300-FF-5 Groundwater	Invite Jacqui Shea (Ecology), Alica Huckaby (Ecology), Alicia Boyd (EPA) to the September 300 Area aquifer tube sampling event.	Open: 7/13/06; Action: Completed 9/5/06
X	100-110	ECY	J. Price	100-H	John Price (Ecology) will send Kent Westover (RL) an email after looking at the information on the 116-H-4 table provided at the 10/12/06 UMM.	Open: 10/12/06; Action: Completed 10/13/06
X	100-111	RL	K. Westover	RCC General	RL shall propose a process for resolving sampling approaches where Ecology and RL differ, and multiple attempts at a technical level are exchanged without resolution.	Open: 10/12/06; Action: Ecology and RL agreed to close item; action closed 2/8/07.

100/300 Area UMM

Action List

April 12, 2007

Open (O)/ Closed (X)	Action No.	Co.	Actionee	Project	Action Description	Status
X	100-112	RL	B. Charbone au	100-HR-3	RL will respond to Ecology's email request on the data and analysis request regarding the 100-HR-3 system.	Open: 10/12/06; Action: Data was provided, & Ecology is reviewing. On 4/12/07 this action was closed and a new action item generated (see action item 100-133).
X	100-113	ECY	J. Price	100-HR-3	John Price will respond to RL's request to submit an annual report for the ISRM system versus a quarterly report. However, monthly data will still be sent to Ecology.	Open: 10/12/06; Action: Ecology approval documented in minutes. Completed 11/9/2006.
X	100-114	RL	B. Charbone au	Unknown	RL will send Ecology the schedule for the EM-22 Treatability Test Report	Open: 10/12/06; Action: Schedule entered into minutes. Completed 11/9/2006.
X	100-115	RL	B. Charbone au	100-D	RL will send Ecology the plans/actions for the 182-D Reservoir.	Open: 10/12/06; actions documented in minutes. Completed 11/9/2006.
X	100-116	RL	J. Zeisloft	100-D	RL and Ecology shall talk about the liquid removal from the 100-D-56 pipe.	Open: 10/12/06; Action: Completed 11/9/2006

100/300 Area UMM

Action List

April 12, 2007

Open (O)/ Closed (X)	Action No.	Co.	Actionee	Project	Action Description	Status
X	100-117	ECY	J. Price	100-N	Ecology shall review the revegetation proposal for the 116-N-1 site and provide feedback.	Open: 10/12/06; Action: Proposal approved in minutes. Completed 11/9/2006.
X	100-118	ECY	J. Price	100-D	Ecology shall review the 100-D-56 chromium treatment plan	Open: 10/12/06; Action: Ecology submitted comments. Completed 11/9/2006.
X	300-003	RL	C. Smith	300-FF-2	RL shall provide EPA with the contamination control measures to move the MO-905 trailer within the onsite area.	Open: 10/12/06; Action: Completed 10/18/2006
X	100-119	RL	J. Morse	100-HR-3	RL (John Morse) will set up a meeting with Ecology (John Price) on overall long-term picture for 100-HR-3.	Open: 11/9/06; Action: RL is scheduling a meeting in March 2007. On 4/12/07 this action was closed and a new action item generated (see action item 100-133).
X	100-120	RL	J. Morse	100-HR-3	RL (John Morse) will provide Ecology (Mandy Jones) with the 100-D well installation schedule, as well as the EM-22 Treatability Test well installation plans.	Open: 11/9/06; Action: RL to set up meeting in March 2007 to provide the schedule. On 4/12/07 this item was closed.

100/300 Area UMM

Action List

April 12, 2007

Open (O)/ Closed (X)	Action No.	Co.	Actionee	Project	Action Description	Status
X	100-121	RL	J. Morse	100-FR-3	RL (John Morse) will provide EPA (Rod Lobos) with the Contaminates of Concern (COCs) plot for each well in 100-FR-3, including a list of wells sampled in October 2006 and those scheduled to be sampled in November 2006.	Open: 11/9/06; Action: Closed 12/14/2006
X	100-122	RL	J. Zeisloft	100-D	RL (Jamie Zeisloft) will set up a meeting with Ecology on the holistic 100-D characterization approach.	Open: 11/9/06; Action: Meeting was held; action closed 2/8/07.
X	100-123	RL	J. Zeisloft	100-D	RL (Jamie Zeisloft) will provide Ecology (Mandy Jones) with the overall 100-D project remediation schedule.	Open: 11/9/06; Action: Closed 12/14/2006
X	300-004	RL	C. Smith	618-10/11	RL (Chris Smith) will set up a meeting with EPA to discuss the M-16-67 milestone for 618-10/11 to ensure there are no issues with the design solution and completing the milestone.	Open: 11/9/06; Action: Closed 12/14/2006
O	100-124	RL	K. Westover	General RCC	RL to evaluate whether it endorses use of analogous sites for site closeout (proposed by WCH), and communicate its opinion to Ecology and EPA. As a first step, RL will set up a meeting to focus on a current example of a waste site being proposed for closeout using this approach.	Open: 12/14/06; Action: Remains Open
O	100-125	RL	K. Bazzell	General RCC	RL to meet with EPA and Ecology on what systems or processes are in place to track remedial action costs for waste site closeout. Remedial Action Closeout Reports will capture this information but EPA and Ecology want to hear an update since the development of the 300-FF-1 Remedial Action Report (DOE/RL-2004-74, Rev. 0).	Open: 12/14/06; Action: RL will conduct a briefing in March/April 2007. A briefing to EPA and Ecology is planned for the May 2007 UMM.

100/300 Area UMM

Action List

April 12, 2007

Open (O)/ Closed (X)	Action No.	Co.	Actionee	Project	Action Description	Status
X	100-126	RL	J.Morse	General RCC	RL (John Morse) will provide EPA with "DAVE" access.	Open:12/14/06; Action: Closed 1/11/07
X	100-127	RL	C. Smith	100-B/C	RL (Chris Smith) will provide EPA with the spent nuclear fuel disposition schedule for 100-B/C.	Open:12/14/06; Action: Closed 1/11/07
X	300-005	RL	R. Guercia	300 Area D4	RL shall provide EPA with status on the 324/327 building demolition strategy.	Open:12/14/06; Action: Closed 1/11/07
X	300-006	RL	R. Guercia	300 Area D4	The Tri-Parties will develop a process for closing out D4 actions where no known waste site is under the building, and no releases to soil are documented or expected based on existing data.	Open: 1/11/07; Action: RL will set up a meeting with EPA and Ecology to discuss. On 4/12/07 this item was closed.
O	100-128	RL	K. Westover	100-N	RL (Kent Westover) will follow up with Ecology (John Price) on the D4 work on structures and the removal of small section of inlet piping to 1301-N.	Open: 1/11/07; Action: On 4/12/07, RL stated additional discussions were still necessary.
X	100-129	RL	J. Morse	100-K	RL (John Morse) will provide EPA with a copy of "The KW Pump and Treat System Remedial Design and Remedial Action Work Plan, Supplement to the 100-KR-4 Groundwater Operable Unit Interim Action," DOE/RL-2006-52, Rev. 1.	Open: 1/11/07; Action: Closed 1/11/07

100/300 Area UMM
Action List
April 12, 2007

Open (O)/ Closed (X)	Action No.	Co.	Actionee	Project	Action Description	Status
O	100-130	RL	J. Zeisloft	100 Areas	EPA and Ecology to discuss footnote in Cleanup Verification Packages/Remaining Site Cleanup Verification Packages (CVP/RSVPs) for immobile contaminants as related to the footnote stated in the Remedial Design Report/Remedial Action Work Plan for immobile contaminants.	Open: 1/11/07; Action: RL will set up a meeting with Ecology in late Feb. or early March 2007. At the 4/12/07 UMM, EPA stated additional discussions were still necessary.
X	100-131	RL	C. Smith	100 Areas	Ecology requests RL for an updated schedule on remediation designs and sampling work instructions through June 2009.	Open: 1/11/07; Action: Information provided; action closed 2/8/07.
O	100-132	RL	C. Smith	100 Areas	RL will develop proposed changes to the verification sampling approach for tritium in soil.	Open: 2/8/07; Action: At the 4/12/07 UMM it was stated additional discussions were necessary and a meeting with Ms. Dittmer was necessary.
X	300-007	RL	C. Smith	300 Area	EPA requested a meeting on 618-7 to be scheduled, and to include the Washington State Department of Health.	Open: 2/8/07; Action: Meeting was held and this item was closed on 4/12/07.
O	100-133	RL	J. Hanson	100-HR-3	RL and Fluor Hanford will schedule a meeting with Ecology to decipher data trends, and future plans for the chromium plume at the 100-H reactor.	Open: 4/12/07; Action:

100/300 Area UMM

Action List

April 12, 2007

Open (O)/ Closed (X)	Action No.	Co.	Actionee	Project	Action Description	Status
O	300-008	RL	R. Guercia	100/300 Area	RL shall develop the instructions for documenting D4 completions in the 100 and 300 Areas where no known waste site is under the building, and no releases to soil are documented or expected based on existing data. These instructions shall be added into the respective Removal Action Work Plans after review and approval from the respective lead regulatory agency for the specific Removal Action Work Plans in the 100 and 300 Areas.	Open: 4/12/07; Action:
O	300-009	RL	J. Sands	300 Area	RL will follow up with EPA on any past or future land evaluations of the southern 300 Area referred to as the "triangle area" where new construction is starting.	Open: 4/12/07; Action:

Attachment D

Attachment 1

Facility Completion Documentation

Problem:

The removal action work plans do not describe how to document completion of a facility removal action.

The three parties met and agreed that the following information was needed to document completion of a removal action:

- Quantitative information about the facility demolition.
- Provide a justification for completion that includes a list of contaminants of concern for the facility, a synopsis of the data collected, and a listing of the samples collected (and associated sample numbers). It was recommended that we consider using data tables found in a standard CVP.
- Photographs of the demolition activity should be included.
- Document that the wastes have all been shipped to the appropriate disposal facility.
- Provide DOE and regulator concurrence to the completion.
- A standard distribution for the form should be developed, which should include the Administrative Record. It was recommended that we establish a distribution list similar to the WIDS reclassification forms.

The following agreements and expectations were established:

- It was agreed that discussions regarding the end state of a facility should be performed early in the process of facility demolition. This will allow for approval of the facility completion to be obtained in short order.
- LARADS and GPERS are appropriate for determining whether radiological soil contamination is encountered after facility demolition.
- It was agreed that when soil sampling is necessary to confirm that a facility COC was not introduced to the environment during facility demolition (e.g., to address COCs that remained in the facility during demolition), multi-incremental sampling would be appropriate.
- Results of the soil sampling would be evaluated against the existing cleanup values.
- A CVP-like document is not necessary for documenting completion of a removal action in areas where facility demolition is not remediating a soil waste site.
- It was agreed that documents can be referenced in the completion form as long as the document is available in the Administrative Record.
- It was recommended that the same level of detail be included in the deferral form.

Solution:

The attached form¹ will be used to document completion of a removal action. After the completed forms are approved by DOE and the lead regulatory agency, the form will be entered into the Administrative Record.

¹ The attached form is meant to be a model for future submittals. Although alterations to the form may occur, changes will not affect the technical content.

Date Submitted:	Associated Building/ Facility:	Document Number:
Originator:	Associated Action Memorandum:	
Phone:		
<u>Description:</u> <u>Building History:</u> <u>Characterization (see attached summary Table 1):</u> <u>D4 Activities:</u> <u>Deactivation:</u> <u>Decontamination and Decommissioning:</u> <u>Demolition:</u> <u>As left condition:</u> An assessment of the remaining contaminants of concern is attached (Table 2). •		
<u>Evaluation of related/adjacent waste sites:</u> See attachment.		
<u>Documentation of Decisions:</u> The basis for this determination is supported as follows: •		
<div style="display: flex; justify-content: space-between;"> <div> EPA Project Manager _____ DOE Project Manager _____ </div> <div> Date _____ Date _____ </div> </div>		

Distribution:

Lead Regulator
 Support Regulator
 DOE Lead
 WCH Records and Document Control, H0-30
 Administrative Record, H6-08

Linda Dietz, H4-22
 Originator
 Lorna Dittmer, H4-23

**ATTACHMENT
(SUPPLEMENTAL INFORMATION)**

Table 1. Summary of samples collected

Type	Quantity	Method Detection Limits	Results	HEIS #

Table 2. Contaminants of Concern for Facility Demolition

Contaminant of Concern	Determination of no impact to the soil

Evaluation of related/adjacent waste sites:

Photographs of Demolition Site:

Other supporting information figures, tables, graphs:

Attachment 2

100/300 Areas Unit Managers Meeting for April 12, 2007

100-NR-2 Groundwater OU - Russ Fabre

Apatite Pilot Test #1 (199-N-138)

- Sampling results from 2-14-07 indicate 190 pCi/L (baseline 801 pCi/L)
- Strontium-90 sequestration performance monitoring will continue bi-monthly.

Apatite Pilot Test #2 (199-N-137)

- Sampling results from 2-14-07 indicate 620 pCi/L (baseline 1000 pCi/L)
- Strontium-90 sequestration performance monitoring will continue bi-monthly.

Apatite Eight Well Injection

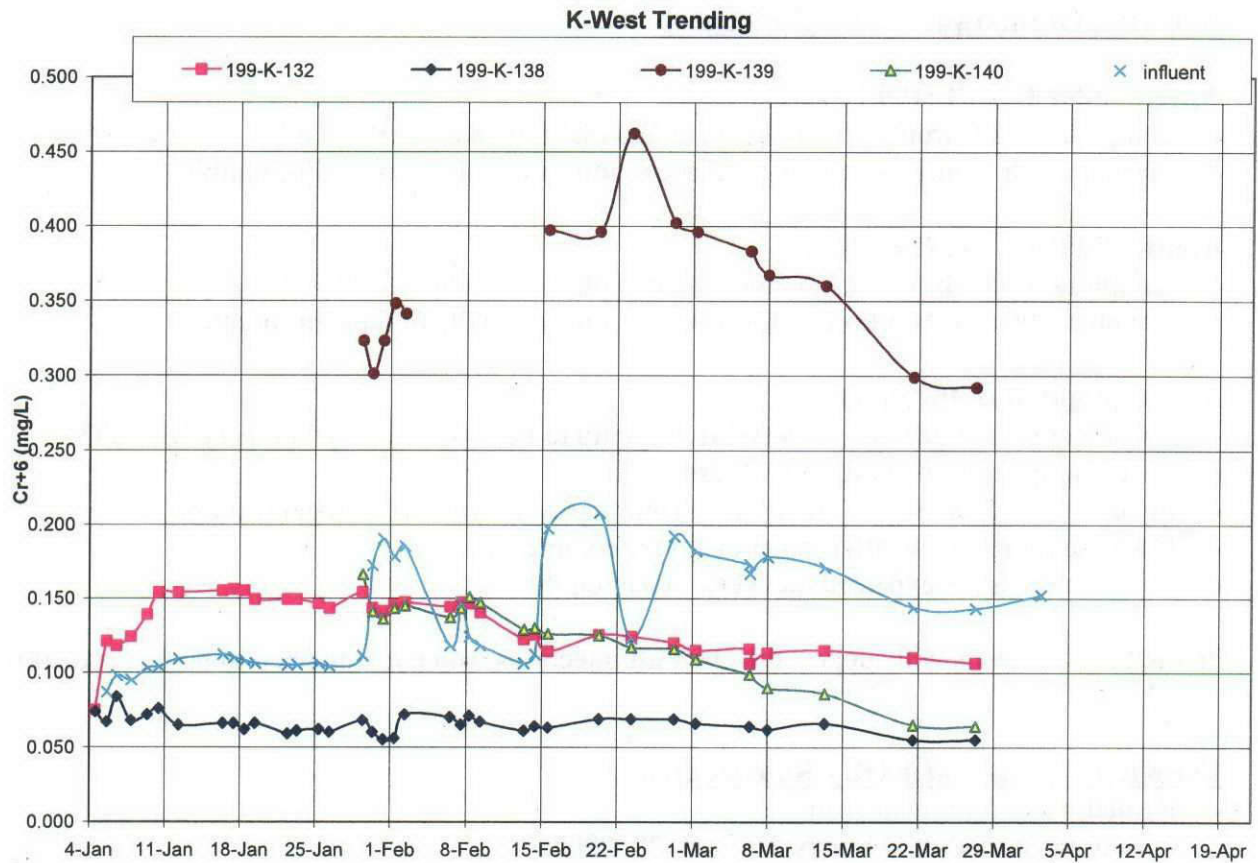
- Modification of injection skids and river pump to be completed by February 23, 2007
- Ringold injections completed on March 25th
- Injection rate was 40 gpm for 58 hrs. Total injection was 140,000 gal per well.
- Daily sampling began after injections were completed.
- Sample results are expected the week of March 9th

Predicted river levels will support the Hanford injections which are planned to begin June 2007

100-KR-4 Groundwater OU - Ron Jackson

- Remediation Treatment Status
 - For the period of February 1-March 28, 2007:
 - System operated normally.
 - Total average flow through the system was approximately 288 gpm.
 - Average influent hexavalent chromium concentration was 0.046 mg/L.
- KR-4 Expansion
 - The new treatment building and two new transfer buildings have been completed as well as the fabrication of three treatment skids. (No change)
- KW Groundwater Remediation
 - The initial system was started up on January 4 with two extraction wells and one injection well. The remaining two extraction wells and the injection well were brought on line on January 29. At that time we are now operating with 4 extractions wells and two injection wells. Since February 11, the average total average flow is greater than 90 gpm. To date the system has treated over 10M gallons of groundwater. Figure 4 shows the hexavalent trend plots for the extraction wells.

Figure 1. Hexavalent chromium trend plots.



- Calcium Polysulfide Treatability Test
 - Quarterly sampling began in February, all four of the treatability test injection wells remain strongly reducing, with oxidation reduction potentials around -300m. Samples from the extraction well, 199-K-126, show the aquifer in this area to be oxic, containing 45 ppb hexavalent chromium.

100-KR-4: K-Basins Monitoring Task—Bob Peterson (PNNL)

- Leak Detection Monitoring
 - The most recent tritium results available are for samples collected during the third week of February 2007. The values are consistent with historical trends and expectations, with no evidence for recent impacts to groundwater from shielding water at KE or KW basin.
 - Monthly monitoring continues to be scheduled for three wells close to the KE Basin (199-K-27, 199-K-29, and 199-K-109A) while sludge removal/transfer operations are underway. Some scheduled sampling was missed during March because of an interruption to all sampling activities.
- Monitoring Well Network
 - Monitoring at new monitoring wells installed between the KE reactor and the Columbia River (199-K-141 and 199-K-142) has not yet started.
- Reporting

- Most recent quarterly K-Basins report: July, August, and September 2006 (PNNL-16270).
- K-Basins subsection of the FY 2006 annual groundwater report: Section 2.3.3 of PNNL-16346, March 1, 2007.

100-HR-3 Groundwater OU - Ron Jackson

- Remediation Treatment Status
 - For the period February 1-March 28, 2007:
 - The system operated normally.
 - Total average flow through the system was approximately 156 gpm.
 - Average influent hexavalent chromium concentration for H Area was approximately less than 0.018 mg/L.
 - Average influent hexavalent chromium concentration for D Area was approximately 0.133 mg/L.
- DR-5 Treatment Status
 - For the period February 1-March 28, 2007:
 - System operated normally except D5-92 due to pump failure. Pump will be replaced during the week of April 9.
 - Total average flow was approximately 44 gpm.
 - The average influent hexavalent chromium concentration was 0.786 mg/L.
- Summary of ISRM Status
 - Chromium concentrations in groundwater sampled from select ISRM injection wells slightly lower than last March.
- EM-22 Technology Developments
 - Injecting micron-size iron into selected ISRM boreholes: MSE-Technology Applications completed most of the laboratory experiments to test the effects of iron on groundwater composition and determine the probability of passivation of the iron in contact with groundwater. Chemical results from these tests will be available in April.
 - Currently, AVANTech is installing the EC system at the 100-D Area. Batch testing is planned to begin on April 17 with continuous operation on April 20. The test will run for approximately 4 months.
 - Installation of all seven groundwater monitoring wells was completed in March. The wells will be sampled by-weekly for hexavalent chromium through October 2007.

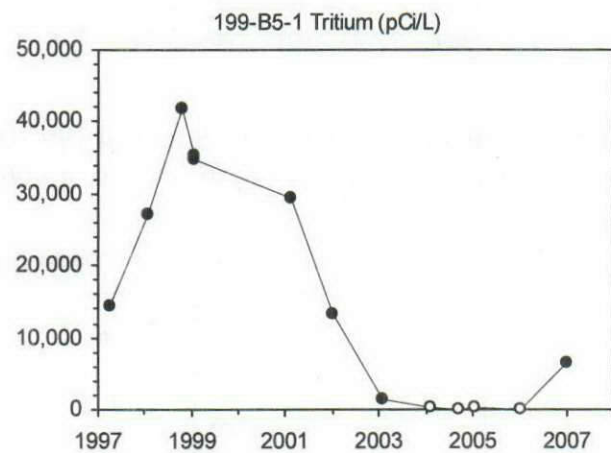
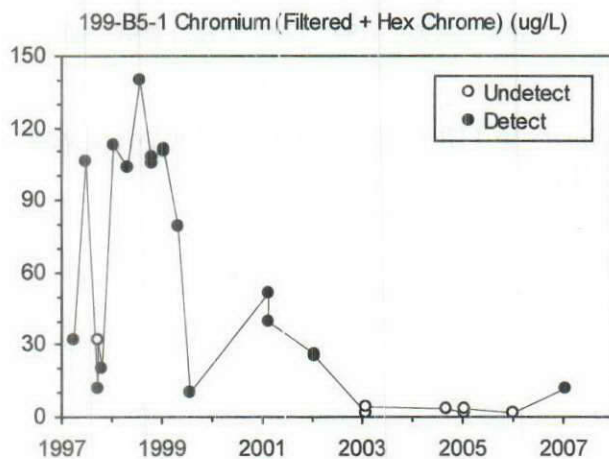
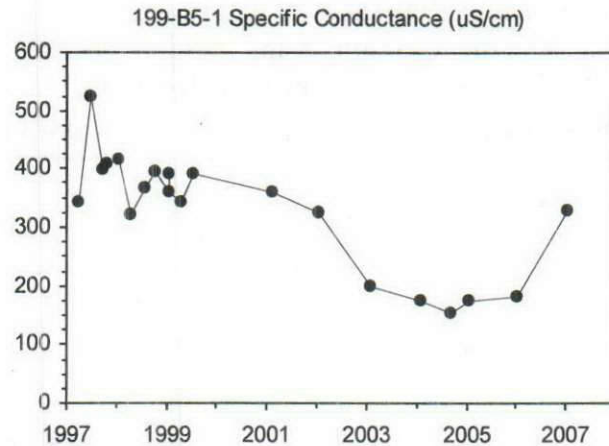
300-FF-5 Operable Unit—Bob Peterson (PNNL) and Ron Smith (PNNL)

- Operations and Maintenance Plan Activities:
 - Recent sampling events and results: All results are now available for the semi-annual sampling event that took place in December 2006. New plume maps for uranium have been prepared for June 2006 and December 2006. These maps show clearly the seasonality in 300 Area groundwater conditions, with uranium being remobilized from the lower vadose zone at some inland wells, and uranium contamination being diluted by infiltrating river water at wells near the river.
 - RCRA Integration, 300 Area Process Trenches: [No new information to report]
- Phase III Feasibility Study, Limited Field Investigation, and Update to 300-FF-5 Qualitative Risk Assessment:
 - The report describing the results of the LFI drilling program has been revised based on an internal contractor review and is undergoing DOE review.
 - A report describing an update to the 300-FF-5 qualitative risk assessment has undergone DOE and contractor review, and is currently being prepared for wider distribution.
- Other Activities:
 - Uranium and plutonium were not detected in groundwater samples collected from beneath 618-2 burial ground (drilling conducted during December 2006).
 - Drilling adjacent to LFI well 399-3-20 will start during early April 2007. The borehole will produce water samples for comparison with earlier results from LFI, when unexpectedly high concentration of trichloroethene was discovered. The hydrologic units of concern are a fine-grained (sandy) unit within Ringold Unit E and the more transmissive underlying sediment that extends down to the Ringold Lower Mud, which is the aquitard at the base of the unconfined aquifer.
 - The 300 Area has been selected as a field test site for investigations of uranium. A workshop to introduce new chief investigators to the 300 Area was held March 21-22, 2007 and included a field trip. Initial research will involve infiltration of moisture and uranium transport in the vadose zone.

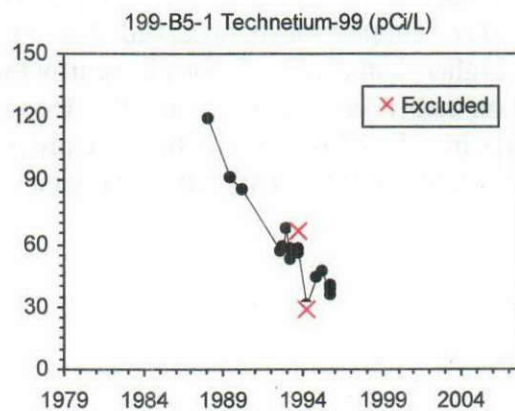
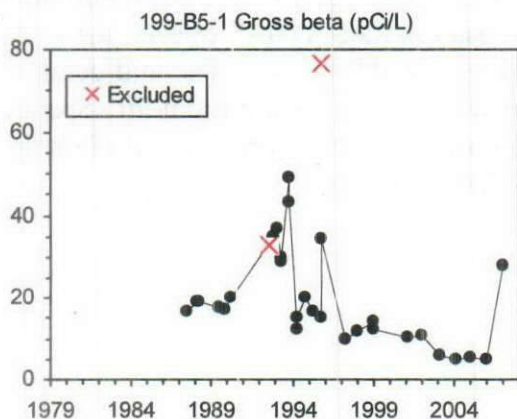
100-BC-5 Operable Units—Mary Hartman (PNNL)

Aquifer tubes were sampled in February and March. This completes all FY 2007 groundwater and aquifer tube sampling.

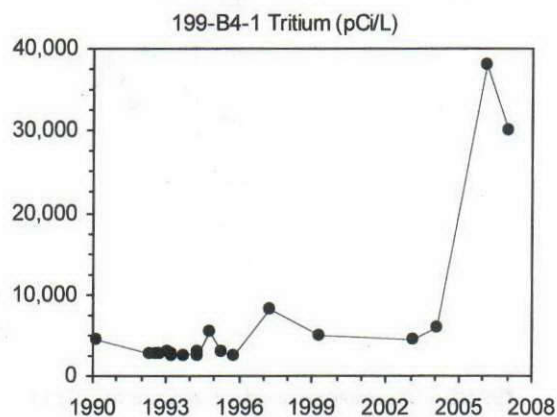
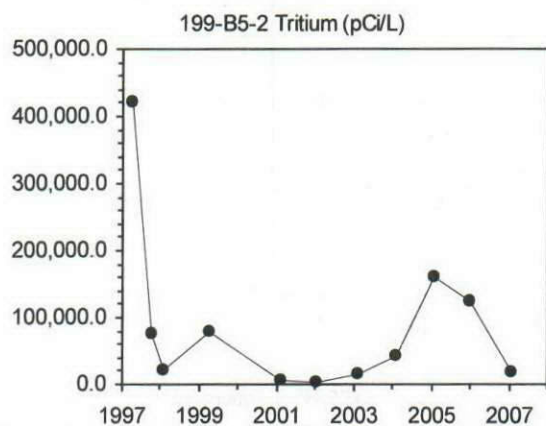
Specific conductance rose to 328 $\mu\text{S}/\text{cm}$ in well 199-B5-1 in January (was ~ 200 $\mu\text{S}/\text{cm}$). This well has shown evidence of dilution with fresh water for the past several years. Last year a leaking fire hydrant near this well was repaired. The increase in specific conductance seems to be responding to the change. Hexavalent chromium and tritium were detected for the first time since 2002, but remained below peak values seen in the past.



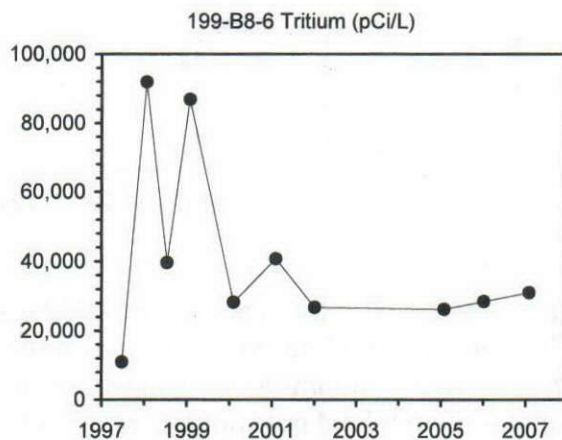
Gross beta also increased sharply in well 199-B5-1. The January 2007 result (28 pCi/L) is in the range observed in 1990-95. There are no strontium-90 or technetium-99 data for the January sample. The beta-emitter is probably not strontium-90, for which there are ample data from 1983-2005, all <2 pCi/L. The technetium-99 trend did not correlate to the beta trend in the past (see graphs). Because the recent beta value was below the drinking water standard (50 pCi/L), we don't plan to resample the well. A similar, but higher beta peak last year in 100-F Area was a fleeting occurrence.



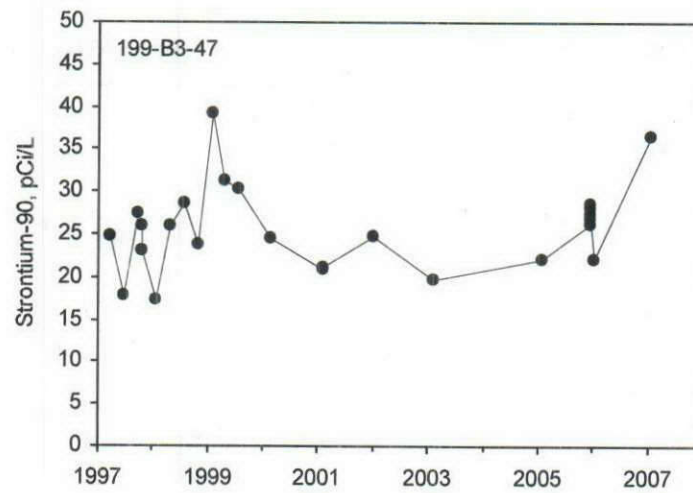
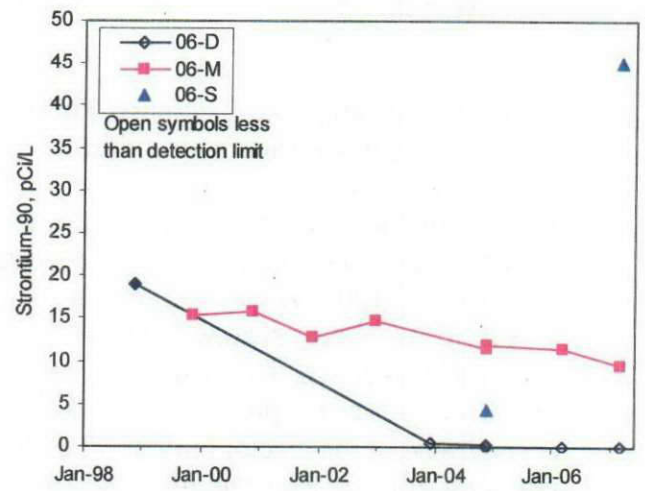
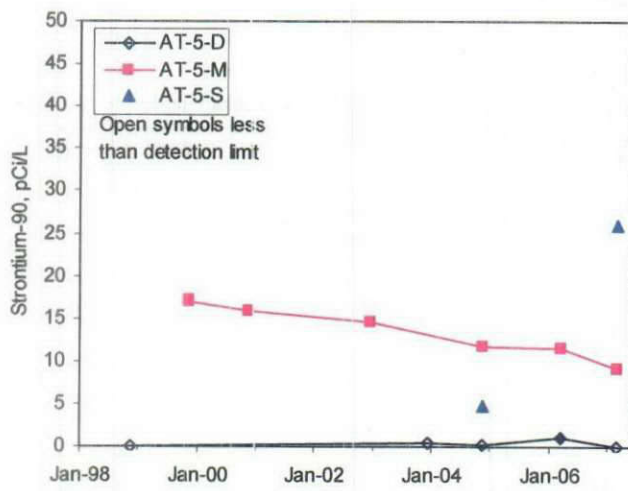
Tritium decreased to 18,000 pCi/L in 199-B5-2 where it peaked in 2004-2005. The well is located between the reactor buildings and the retention basins. Tritium decreased somewhat but remained above the DWS in well 199-B4-1, central 100-B near the B-5 Crib, where it peaked last year.



Tritium remained above the DWS in well 199-B8-6, near the 118-B-1 burial ground in southwest 100-B Area. The January 2007 result was 31,000 pCi/L.



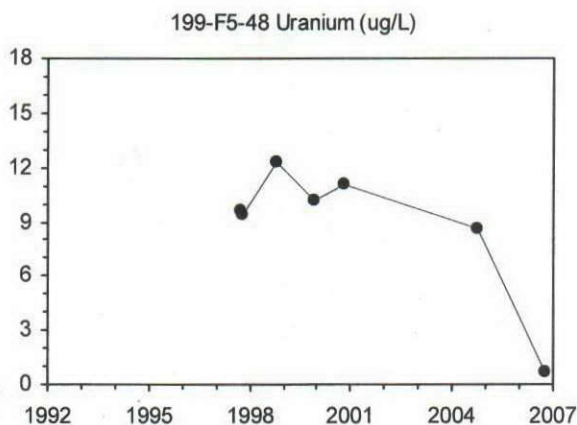
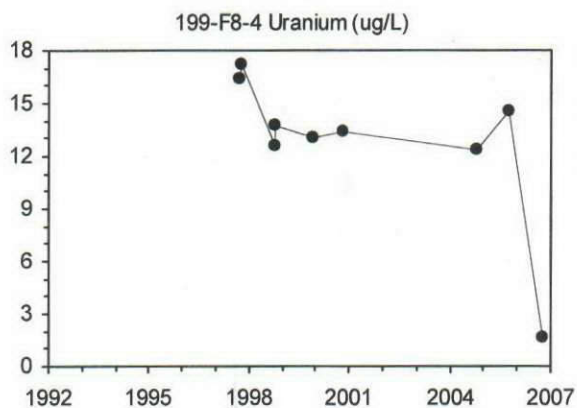
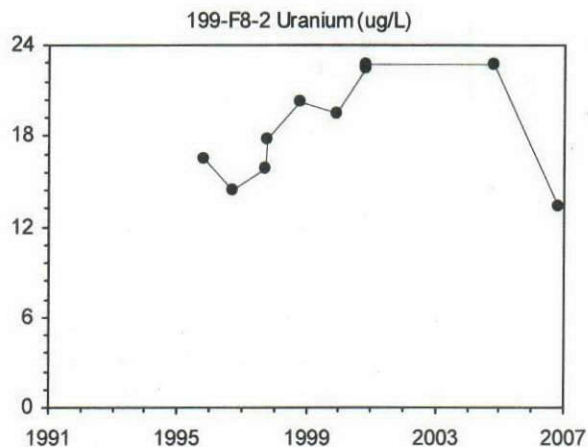
Two of the shallow aquifer tubes, AT-5-S and AT-6-S, showed higher levels of strontium-90 in February 2007 than previously observed. The February result in tube AT-6-S was 45 pCi/L, which is slightly higher than concentrations in nearby monitoring well 199-B3-47. The mid-depth tubes continued on their declining trends and the deep tubes had no detectable strontium-90. Specific conductance in AT-6-S was higher than the previous sample, which might partially explain the increase in strontium-90, but specific conductance in AT-5-S was flat.



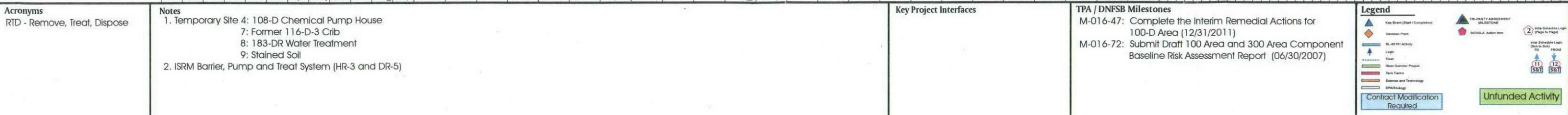
100-FR-3 Operable Unit—Mary Hartman (PNNL)

Aquifer tubes samples in February. This completes all FY 2007 groundwater and aquifer tube sampling.

Results for constituents of concern generally continued previous trends. Uranium concentrations declined in 3 100-F Area wells in October 2006. The wells are widely spaced and the reason for the changes is unknown. The same lab analyzed the recent samples as the previous ones. Well 199-F8-2 is southwest of the reactor building, 199-F5-48 is northeast of the reactor building, and 199-F8-4 is in the southeast 100-F Area.

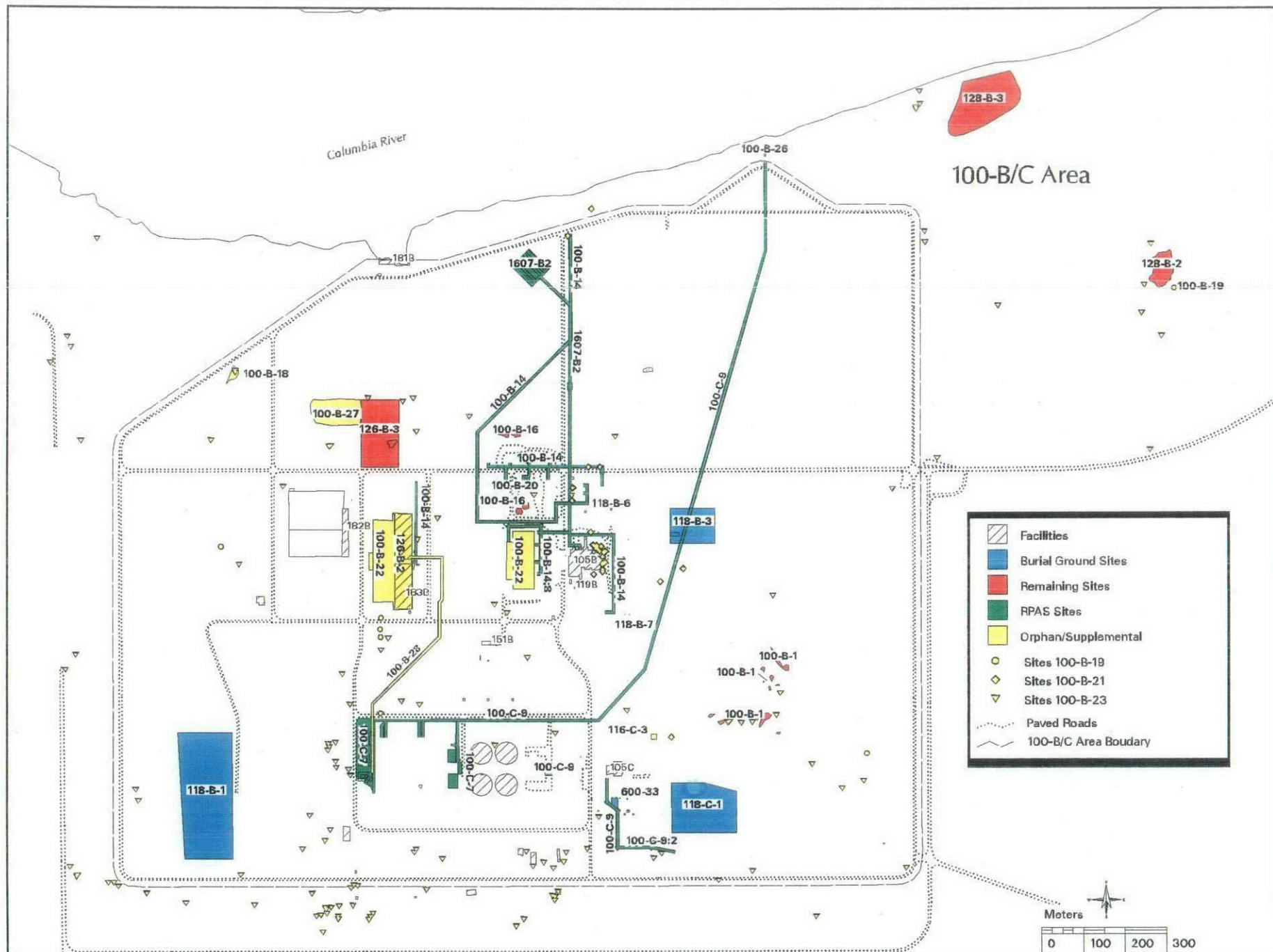


Attachment 3



Attachment 4

7



4/12/2007

- 118-B-1:
 - Tritium Bore Hole - currently mobilizing equipment. See schedule.
 - Anomaly work - a total of 40 containers remain. See schedule.
 - SNF Characterization/Shipment: See schedule.
- 116-C-3:
 - Reviewing the new proposal from the new subcontractor. See schedule.
 - Completed BCL removal.
- 100-C-7
 - Bore holes scheduled to be completed after 118-B-1.

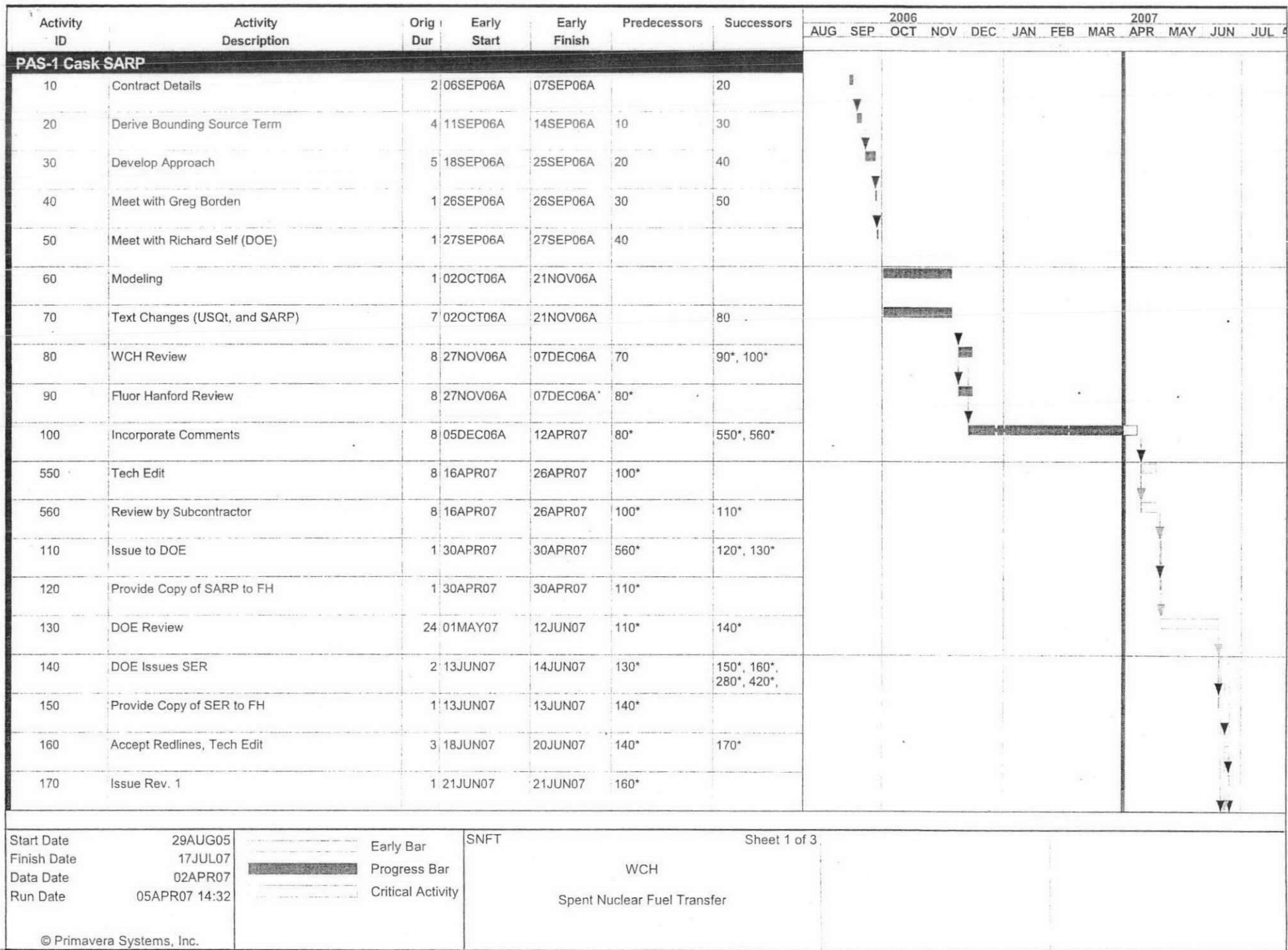
- Miscellaneous:
- 100-B-27 remediation
 - 1607-B1 Septic - characterization support.
 - 1607-B-5 sample
 - 100-B-21 remediation

Activity ID	Activity Description	Orig Dur	Early Start	Early Finish	2006					2007									
					AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT
10200	Review and Approve Submittals (Jonetta)	8	22MAY07	05JUN07															
Project Startup Review																			
10220	Reviewers Conduct Reviews (Decker)	22	28NOV06A	15MAR07															
10210	Prepare PSR Plan/Checklist (Decker)	8	29NOV06A	18JAN07A															
10230	Document Reviews (Decker)	4	30MAY07	05JUN07															
10240	Conduct Review Mtg/Post Startup Items (Decker)	1	06JUN07	06JUN07															
10250	Director Authorize Work To Proceed (Donahoe)	0	07JUN07																
Prepare and/or Revise & Issue Doc's																			
10330	OMP (Pitts, Ware)	20	15NOV06A	05MAR07															
10350	Engineering Crosswalk (Strom)	8	15NOV06A	20FEB07															
10360	Waste Profile (Stocker)	8	28NOV06A	21FEB07															
10260	Survey Req'mts Tech Assessment (Wiles)	4	04DEC06A	20FEB07															
10300	JHA (Dixon)	12	04DEC06A	05MAR07															
10310	Excavation Permit (Jonetta)	12	04DEC06A	05MAR07															
10320	SSWMI (Stocker)	12	04DEC06A	05MAR07															
10340	TI/AB Compliance (Dixon, Strom)	12	04DEC06A	05MAR07															
10370	SAF (Charlene)	8	04DEC06A	26FEB07															
10270	ERSTI (Wiles)	4	21FEB07	27FEB07															
10280	ALARA Review (Jonetta)	4	21FEB07	27FEB07															
10380	Other Doc's (Dixon)	2	22FEB07	26FEB07															
10290	RWP (Wiles)	4	28FEB07	06MAR07															
Conduct Training																			
10430	Perform other Readiness Activities (Jonetta)	20	27NOV06A	12MAR07															
10390	IHE/OMP (Tina)	8	20FEB07*	20FEB07															
10400	RWP (Jonetta)	8	20FEB07*	05MAR07															

Activity ID	Activity Description	Orig Dur	Early Start	Early Finish	2006					2007									
					AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT
10410	JHA (Dixon)	8	20FEB07*	05MAR07															
10420	Other Site Specific Training (Jonetta, FE&C)	8	20FEB07*	05MAR07															
10440	Work Package Walkdown (Dixon)	2	08MAR07	12MAR07															
Prepare WI																			
10442	Prepare Closeout WI (Lorna)	44	20FEB07	07MAY07															
10490	Incorporate Comments (Lorna)	1	08MAY07	08MAY07															
10510	Draft WI (Lorna)	2	09MAY07	10MAY07															
10500	RL/Reg Review (Lorna)	47	14MAY07	06AUG07															
10446	Inc. Comments (Lorna)	3	07AUG07	09AUG07															
10520	RL/Reg Approve (Lorna)	1	13AUG07	13AUG07															
10448	Issue WI (Lorna)	0	14AUG07																
Mock Up																			
10630	Construct North Tank Scaffolding	2	11JUN07*	12JUN07															
10850	Cut Hole in North Tank	2	13JUN07	14JUN07															
10860	Insert Mixer in North Tank	1	18JUN07	18JUN07															
10870	Sample North Tank	4	18JUN07	21JUN07															
10880	Add Acid to North Tank	1	19JUN07	19JUN07															
10890	Add Ferrous Sulfate to North Tank	1	19JUN07	19JUN07															
10900	Add Dry Materials to North Tank	1	19JUN07	19JUN07															
10910	Mix Liquid in North Tank	1	19JUN07	19JUN07															
Field Remediation																			
10530	Expose Tanks (Jonetta)	3	20FEB07*	22FEB07															
10540	Construct Scaffolding (Jonetta)	2	20JUN07	21JUN07															
10550	Cut Holes in Tanks (Jonetta)	2	25JUN07	26JUN07															
10560	Mix and Sample (Jonetta)	1	27JUN07	27JUN07															

Activity ID	Activity Description	Orig Dur	Early Start	Early Finish	2006					2007									
					AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT
10570	Analysis (Jonetta)	4	27JUN07	03JUL07															
10580	Add Sulfuric Acid (Jonetta)	1	28JUN07	28JUN07															
10590	Add Ferrous Sulfate (Jonetta)	1	28JUN07	28JUN07															
10600	Add Dry Materials (Jonetta)	1	28JUN07	28JUN07															
10616	Review Results/Cont. Path or Change to "B"(Dean)	1	02JUL07	02JUL07															
10640	Shear Tank (Jonetta)	4	03JUL07	10JUL07															
10650	Collect Treated Waste Samples (Jonetta)	1	03JUL07	03JUL07															
10670	Rubbelize Material (Jonetta)	4	03JUL07	10JUL07															
10660	Laboratory Analysis TCLP (Jonetta)	4	05JUL07	11JUL07															
10680	Loadout (Jonetta)	4	11JUL07	17JUL07															
10690	Collect Verification Samples (Jonetta)	1	18JUL07	18JUL07															
10700	Laboratory Analysis (Lorna)	12	19JUL07	08AUG07															
10710	Prep Backfill Concurrence & Reg Approve (Lorna)	8	09AUG07	22AUG07															
10720	Backfill (Jonetta)	4	23AUG07	29AUG07															
RSVP																			
10730	Data Review (Lorna)	4	09AUG07	15AUG07															
10740	Prepare Data Calcs/DQA (Lorna)	8	16AUG07	29AUG07															
10750	Prepare Internal Draft (Lorna)	8	16AUG07	29AUG07															
10760	Technical Edit (Lorna)	1	30AUG07	30AUG07															
10770	Internal Review (Lorna)	2	04SEP07	05SEP07															
10780	Incorp. Comments (Lorna)	2	06SEP07	10SEP07															
10790	Prepare Draft & Submittal (Lorna)	2	11SEP07	12SEP07															
10800	Submit Draft A to RL/EPA (Lorna)	0	13SEP07																
10810	RL/EPA Review (Lorna)	24	13SEP07	24OCT07															

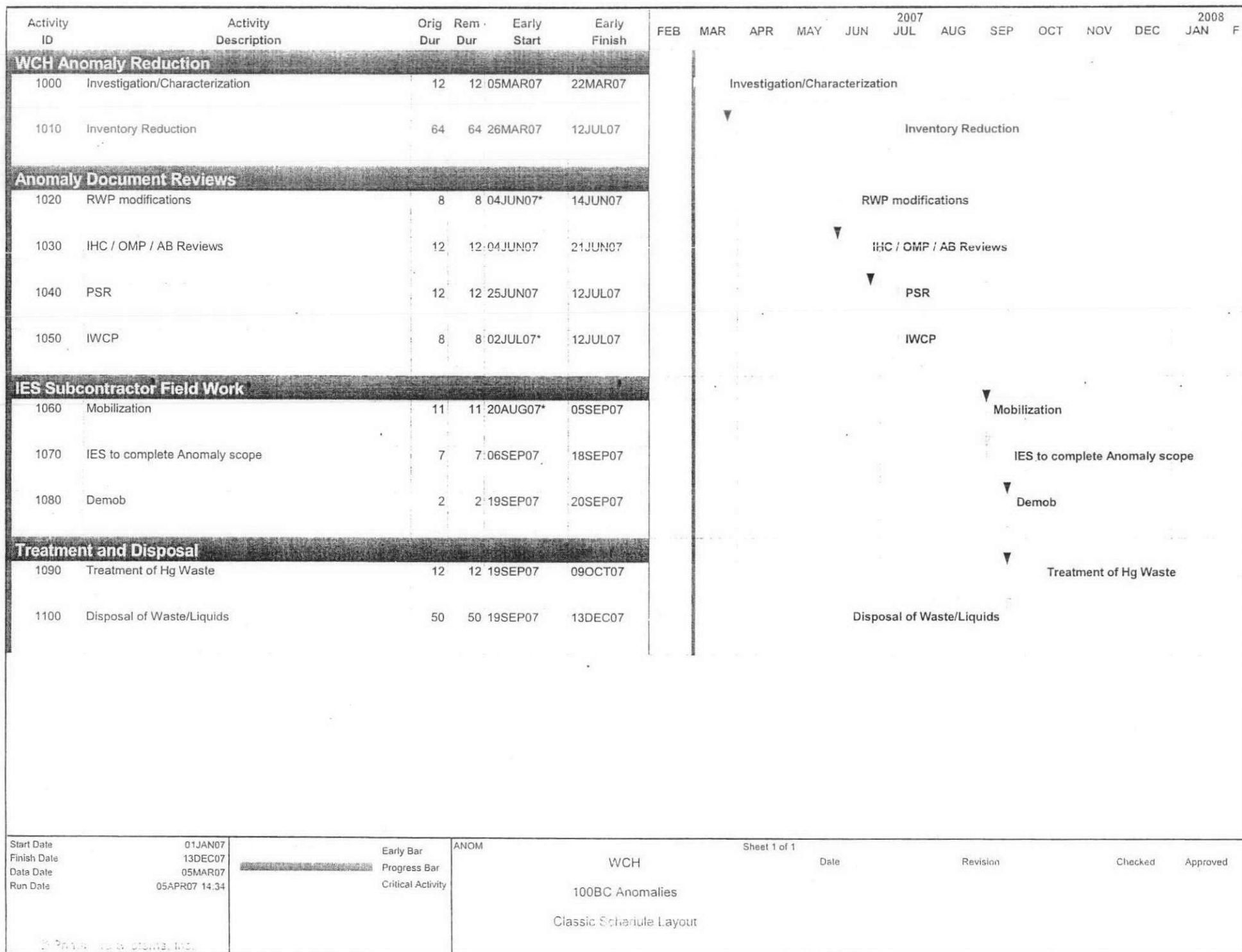
Activity ID	Activity Description	Orig Dur	Early Start	Early Finish	2006					2007							
					AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG
10820	Inc. Comments (Lorna)	3	25OCT07	30OCT07													
10830	RL/EPA Sign (Lorna)	1	31OCT07	31OCT07													
10840	Issue RSVP (Lorna)	0	01NOV07														



Activity ID	Activity Description	Orig Dur	Early Start	Early Finish	Predecessors	Successors	2006					2007																
							AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL										
Characterize and Ship																												
180	Charaterization Kick-Off	1	31OCT06A	31OCT06A		190, 200																						
190	Cogima/Areva Involvement	19	01NOV06A	17JAN07A	180																							
200	IWCP	12	01NOV06A	08MAR07A	180																							
210	Greg B. to resolve definition on fuel	4	13NOV06A	22MAR07A																								
220	Fence and Bunker Work	4	04DEC06A	08MAR07A		260, 270																						
230	Pre-Mockup/Walkdown	4	20DEC06A	20DEC06A																								
240	Order/Secure Fry Baskets	20	27DEC06A	01FEB07A																								
250	Project Startup Review	22	02JAN07A	12MAR07A		300																						
290	Notify FH of Characterization	4	28FEB07A	28FEB07A		300																						
260	Mockups/Walkdown	4	12MAR07A	15MAR07A	220	300																						
300	B Characterization Setup	1	19MAR07A	21MAR07A	250, 260, 290	310																						
310	Characterization at B	3	20MAR07A	21MAR07A	300	320*, 340																						
320	Load "Fry Baskets"	3	20MAR07A	21MAR07A	310*	330*																						
330	Package into sludge containers	3	20MAR07A	21MAR07A	320*																							
340	C Characterization Setup	1	26MAR07A	26MAR07A	310	350																						
360	Load "Fry Baskets"	3	26MAR07A	26MAR07A	350*	370*																						
370	Package into sludge containers	3	26MAR07A	26MAR07A	360*																							
350	Characterization at C	3	27MAR07A	29MAR07A	340	360*, 390*																						
270	Notify Safeguards and Security	0		12MAR07A	220																							
380	Prepare Shipping Papers	4	02APR07	05APR07	390*																							
390	Summary Report	4	02APR07	05APR07	350*	380*																						
400	Reserve Flat Bed	8	02APR07*	12APR07		470*																						

Activity ID	Activity Description	Orig Dur	Early Start	Early Finish	Predecessors	Successors	2006					2007				
							AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY
600	Work Package Development	34	17APR07	14JUN07	140*	420*										
590	PSR	17	16MAY07	14JUN07	140*	420*										
410	Notify Fluor	1	12JUN07	12JUN07	430*											
280	PSI (Greg B)	4	18JUN07	21JUN07	140*											
420	Load and Tiedown #1	1	18JUN07	18JUN07	140*, 590*, 600*	430*										
430	Shipment # 1	4	19JUN07	25JUN07	420*	410*, 440*										
440	Load and Tiedown #2	1	26JUN07	26JUN07	430*	450*										
450	Shipment # 2	4	27JUN07	03JUL07	440*	570*										
570	Load and Tiedown #3	1	05JUL07	05JUL07	450*	580*										
580	Shipment # 3	4	09JUL07	12JUL07	570*											
Casks																
470	Reserve Crane	8	02APR07	12APR07	400*	480*										
480	Load Cask A on Flatbed	1	16APR07	16APR07	470*	490*										
490	Deliver Cask A to BC	1	17APR07	17APR07	480*	500*										
500	Unload Cask A at BC	1	18APR07	18APR07	490*											
460	Schedule Repair & ID of Resources of Cask B	8	18JUN07*	28JUN07	140*											
510	Prepare for Repair of Cask B	8	18JUN07	28JUN07	140*	520*										
520	Repair Cask B	4	02JUL07	09JUL07	510*	530*										
530	Leak Test Cask B	4	10JUL07	16JUL07	520*	540*										
540	Cask B Certified	1	17JUL07	17JUL07	530*											

Activity ID	Activity Description	Orig Dur	Rem Dur	Early Start	Early Finish	2007											
						JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
Borehole Startup - 118-B-1																	
1000	Secure FH cost estimate	4	4	12FEB07A	22FEB07												
1010	Prepare Work Order/Scope of Work for FH	2	2	12FEB07A	20FEB07												
1020	FH Review and Accept Work Order	4	4	21FEB07	27FEB07												
1030	Prepare Draft SAI	4	4	21FEB07	27FEB07												
1040	DOE/EPA Review SAI	4	4	28FEB07	06MAR07												
1050	IWCP	4	4	28FEB07	06MAR07												
1120	FH Prepare DOW, Drilling Subcon., Planning Docs.	26	26	28FEB07	12APR07												
1060	Site Prep/Stake Well	1	1	07MAR07	07MAR07												
1080	Waste Management to Revise/Review SWMI	3	3	07MAR07	12MAR07												
1090	Air Monitoring Plan	8	8	07MAR07	20MAR07												
1100	Develop RWP	8	8	07MAR07	20MAR07												
1070	EPA Walkdown/Stake Well	1	1	08MAR07	08MAR07												
1110	Drill/Sample Borehole	9	9	16APR07	30APR07												
1130	Summary Report	12	12	01MAY07	21MAY07												
1150	ESD Development	4	4	22MAY07	28MAY07												
1140	Debrief DOE/EPA	1	1	29MAY07	29MAY07												
1160	Public Comment and Review per ROD	70	70	30MAY07	27SEP07												
1170	Backfill	24	24	01OCT07	08NOV07												



Start Date 01JAN07
 Finish Date 13DEC07
 Data Date 05MAR07
 Run Date 05APR07 14:34

Early Bar
 Progress Bar
 Critical Activity

ANOM

WCH
 100BC Anomalies
 Classic Schedule Layout

Sheet 1 of 1

Date

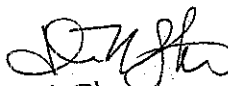


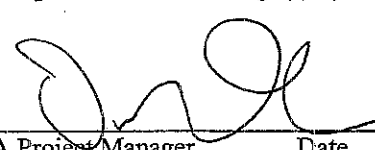
Revision

Checked

Approved

Attachment 5

Waste Site: 118-B-1 Burial Ground (Staging Pile Area, Overburden, and BCL Material)		BACKFILL CONCURRENCE CHECKLIST (Concurrence to Proceed with Waste Site Backfill Operations)		WIDS No: 118-B-1	
This checklist is a summary of cleanup verification results for the 118-B-1 Burial Ground staging pile area, overburden, and below-cleanup level (BCL) material sampling areas. The checklist is intended as an agreement allowing the RCCC subcontractor to backfill the staging pile area (including use of overburden, BCL material, and local borrow material) prior to the issuance of the final cleanup verification package. Backfill will not occur in Process Cell D (used to stage mercury-contaminated soil) until verification sampling results are reviewed. Copies of calculations are included with this checklist with results summarized below. <i>No backfill will be performed within the burial ground excavation at this time.</i>					
Regulatory Requirement	Remedial Action Goals (RAG)	Results	RAG Attained	Ref.	
Direct Exposure – Radionuclides	1. Attain 15 mrem/yr dose rate above background over 1,000 years.	1. Maximum predicted “all pathways” dose rates for each sampling area at the 118-B-1 site are below 15 mrem/yr.	Yes	D	
Direct Exposure – Nonradionuclides	1. Attain individual RAGs.	1. All individual contaminant of concern (COC) and contaminant of potential concern (COPC) concentrations are below the direct exposure RAGs.	Yes	A, B	
Nonradionuclide Risk Requirements	1. Attain hazard quotient of less than 1 for noncarcinogens.	1. The hazard quotients for individual nonradionuclide COCs/COPCs are less than 1.	Yes	C	
	2. Attain cumulative hazard quotient of less than 1 for noncarcinogens.	2. The cumulative hazard quotient for all sampling areas (1.6×10^{-1}) is less than 1.		C	
	3. Attain excess cancer risk of $<1 \times 10^{-6}$ for individual carcinogens.	3. Excess cancer risk values for individual nonradionuclide COCs/COPCs are less than 1×10^{-6} .		C	
	4. Attain a total excess cancer risk of $<1 \times 10^{-5}$ for carcinogens.	4. The total excess carcinogenic risk for all sampling areas (1.6×10^{-6}) is less than 1×10^{-5} .		C	
Groundwater/River Protection – Radionuclides	1. Attain single COC groundwater & river RAGs.	1. Among the radionuclide COCs, only tritium associated with the staging pile area is calculated to reach groundwater, at concentrations significantly below the RAGs.	Yes	D	
	2. Attain National Primary Drinking Water Regulations 4 mrem/yr (beta/gamma) dose standard to target receptor/organ.	2. Among the radionuclide COCs, only tritium associated with the staging pile area is calculated to reach groundwater, at concentrations significantly below the RAGs.	Yes	D	
	3. Meet drinking water standards for alpha emitters: the more stringent of 15 pCi/L MCL or 1/25 th of the derived concentration guide for DOE Order 5400.5.	3. No alpha-emitting radionuclide COC/COPCs are predicted to reach groundwater.	Yes	D	
	4. Meet total uranium standard of 21.2 pCi/L.	4. No uranium isotopes were detected above background levels in verification soil samples.	Yes	A, B	

Waste Site: 118-B-1 Burial Ground (Staging Pile Area, Overburden, and BCL Material)		BACKFILL CONCURRENCE CHECKLIST (Concurrence to Proceed with Waste Site Backfill Operations)		WIDS No: 118-B-1	
Regulatory Requirement	Remedial Action Goals (RAG)	Results	RAG Attained	Ref.	
Groundwater/River Protection – Nonradionuclides	1. Attain individual nonradionuclide groundwater and river cleanup requirements.	1. Residual concentrations of multiple polychlorinated biphenyl congeners and 4,4'-DDE exceeded soil RAGs for the protection of groundwater and/or the Columbia River. However, none of these constituents is predicted to migrate to groundwater (and thus the Columbia River) at concentrations exceeding groundwater or river criteria within 1,000 years. Therefore, residual concentrations achieve the remedial action objectives for groundwater and river protection.	Yes	A	
Other Supporting Information	1. Site-Specific Close-out Approach 2. Sampling Design			E F	
All citations above and attached sheets are on record with Washington Closure Hanford, Records and Document Control. Above noted regulatory requirements have been attained.					
<div style="display: flex; justify-content: space-between;"> <div>  D.N. Strain 2-21-07 </div> <div>  WCH Project Engineer 2/21/07 </div> <div>  DOE Project Manager 2/22/07 </div> </div>					
Given the attached information, DOE can proceed with backfill of the identified portions of the <u>site with minimal risk</u> . Final approval that the site has met remedial action objectives and goals will occur with the submittal, review, and approval of the Cleanup Verification Package(s) by the lead regulatory agency.					
<div style="display: flex; justify-content: space-between;"> <div>  EPA Project Manager 2/22/07 </div> <div> N/A Ecology Project Manager Date </div> <div> N/A Date </div> </div>					

Attachment 6

⑥

Field Remediation
Sample Design and Cleanup Verification for the April 2007 UMM

AREA	DOE-RL/REGULATOR DELIVERABLE	START	FINISH
300 AREA	RL/Regulator Review Draft A WI for 300-32	12/12/2007	1/14/2008
	RL/Regulator Review Draft A WI for 300-2	1/3/2008	1/30/2008
	RL/Regulator Review Draft A WI for 303-M UOF	1/9/2008	2/5/2008
	RL/Regulator Review Draft A WI for 600-276	1/15/2008	2/11/2008
	RL/Regulator Review Draft A WI for UPR-300-2	1/21/2008	2/14/2008
	RL/Regulator Sign Rev. 0 WI for 300-32	1/23/2008	1/30/2008
	RL/Regulator Sign Rev. 0 WI for 300-2	2/11/2008	2/19/2008
	RL/Regulator Sign Rev. 0 WI for 303-M UOF	2/14/2008	2/25/2008
	RL/Regulator Sign Rev. 0 WI for 600-276	2/21/2008	2/28/2008
	RL/Regulator Sign Rev. 0 WI for UPR-300-2	2/27/2008	3/5/2008
	RL/Regulator Review Draft A Closure Doc for 300-32	6/16/2008	7/30/2008
	RL/Regulator Review Draft A Closure Doc for 300-2	7/2/2008	8/18/2008
	RL/Regulator Review Draft A Closure Doc for 303-M UOF	7/9/2008	8/21/2008
	RL/Regulator Review Draft A Closure Doc for 600-276	7/15/2008	8/27/2008
	RL/Regulator Review Draft A Closure Doc for UPR-300-2	7/21/2008	9/3/2008
	RL/Regulator Sign Rev. 0 Closure Doc for 300-32	8/21/2008	8/28/2008
	RL/Regulator Sign Rev. 0 Closure Doc for 300-2	9/10/2008	9/17/2008
	RL/Regulator Sign Rev. 0 Closure Doc for 303-M UOF	9/16/2008	9/23/2008
	RL/Regulator Sign Rev. 0 Closure Doc for 600-276	9/22/2008	9/29/2008
	RL/Regulator Sign Rev. 0 Closure Doc for UPR-300-2	9/25/2008	10/2/2008
	RL/Ecology Rev of Draft A ESD for 300 Area	5/8/2007	6/25/2007
	RL/Regulator Review Draft A Closure Doc for 300-48	7/15/2008	8/27/2008
	RL/Regulator Sign Rev. 0 Closure Doc for 300-48	9/22/2008	9/30/2008
	RL/Regulator Review Draft A Closure Doc for 618-13	12/3/2008	1/21/2009
	RL/Regulator Review Draft A Closure Doc for 618-7	12/22/2008	2/17/2009
	RL/Regulator Sign Rev. 0 Closure Doc for 618-13	2/12/2009	2/23/2009
	RL/Regulator Sign Rev. 0 Closure Doc for 618-7	3/11/2009	3/18/2009
	RL/Regulator Review Draft A Closure Doc for 618-1	5/26/2009	7/9/2009
	RL/Regulator Sign Rev. 0 Closure Doc for 618-1	7/13/2009	7/20/2009
618-10/11	RL Transmit 618-10/11 SAP for Regulators Review	6/28/2007	7/12/2007
	RL/Regulator Review of 618-10/11 SAP	7/16/2007	8/29/2007
	Cultural/Ecological APE Review 618-10/11	8/14/2007	9/13/2007
	DOE Review of Cultural Review 618-10/11	9/17/2007	10/16/2007
	RL/Regulator Sign 618-10/11 SAP	9/26/2007	10/9/2007
	RL Transmit 618-10/11 RDR to Regulators Review	10/31/2007	11/13/2007
	RL Transmit 618-10/11 SAP to Regulators Review	10/31/2007	11/13/2007
	RL/Regulator Review of 618-10/11 RDR	11/14/2007	1/8/2008
	RL/Regulator Review of 618-10/11 SAP	11/14/2007	1/8/2008
	RL/Regulator Sign 618-10/11 RDR	2/5/2008	2/26/2008
	RL/Regulator Sign 618-10/11 SAP	2/5/2008	2/26/2008
	Cultural/Ecological APE Review 618-10/11	5/7/2008	5/20/2008
	DOE Review of Cultural Review 618-10/11	5/7/2008	6/19/2008
	RL/Regulator Design Briefing 618-10/11	5/20/2008	5/22/2008
	618-10/11 DSA for DOE Review and Approval	8/28/2008	10/13/2008
	DOE Review Bid for 618-10/11	9/8/2008	9/8/2008

Field Remediation
Sample Design and Cleanup Verification for the April 2007 UMM

AREA	DOE-RL/REGULATOR DELIVERABLE	START	FINISH
100-BC	RL/Regulator Review Draft A WI for 100-B-21	3/26/2007	4/10/2007
	RL/Regulator Review Draft A WI for 100-B-22	4/11/2007	5/8/2007
	RL/Regulator Sign Rev. 0 WI for 100-B-21	4/19/2007	4/26/2007
	RL/Regulator Review Draft A WI for 100-B-18	5/2/2007	5/30/2007
	RL/Regulator Review Draft A WI for 100-B-19	5/2/2007	5/30/2007
	RL/Regulator Sign Rev. 0 WI for 100-B-22	5/17/2007	5/24/2007
	RL/Regulator Review Draft A WI for 100-B-23	5/17/2007	6/14/2007
	RL/Regulator Sign Rev. 0 WI for 100-B-18	6/11/2007	6/18/2007
	RL/Regulator Sign Rev. 0 WI for 100-B-19	6/11/2007	6/18/2007
	RL/Regulator Sign Rev. 0 WI for 100-B-23	6/26/2007	7/3/2007
	RL/Regulator Review Draft A WI for 100-B-27	7/30/2007	8/23/2007
	RL/Regulator Review Draft A WI for 1607-B5	8/13/2007	9/10/2007
	RL/Regulator Sign Rev. 0 WI for 100-B-27	9/5/2007	9/12/2007
	RL/Regulator Sign Rev. 0 WI for 1607-B5	9/19/2007	9/26/2007
	RL/Regulator Review Draft A WI for 100-B-17	1/31/2008	2/28/2008
	RL/Regulator Sign Rev. 0 WI for 100-B-17	3/11/2008	3/18/2008
	RL/Regulator Review Draft A WI for 100-C-7	9/15/2008	10/9/2008
	RL/Regulator Sign Rev. 0 WI for 100-C-7	10/21/2008	10/28/2008
	RL/Regulator Rev of Draft A Closure Doc for 118-C-1	4/24/2007	5/3/2007
	RL/Regulator Rev of Draft A Closure Doc for 118-B-1	5/24/2007	6/28/2007
	RL/Regulator Review Draft A WI for 116-C-3	4/19/2007	4/25/2007
	RL/Regulator Approve/Signature Rev. 0 WI for 116-C-3	5/3/2007	5/8/2007
	RL/Regulator review of Draft A Closure Doc for 116-C-3	7/19/2007	8/22/2007
	RL/Regulator Sign Rev 0 Closure Doc for 116-C-3	9/11/2007	9/17/2007
	RL/Regulator review of Draft A Closure Doc. 100-C-9	4/18/2007	5/22/2007
	RL/Regulator Sign Rev 0 Closure Doc for 100-C-9	6/12/2007	6/18/2007
	RL/Regulator Review Draft A Closure Doc for 1607-B1	7/16/2007	8/28/2007
	RL/Regulator Sign Rev. 0 Closure Doc for 1607-B1	9/20/2007	9/27/2007
100-F	RL/Regulator review of Draft A Closure Docm. 1607-F3	7/19/2006	4/30/2007
	RL/Regulator Review Draft A WI for -1607-F4	5/15/2007	6/12/2007
	RL/Regulator Sign.& Issue Rev 0 Closure Docm. 1607-F3	5/17/2007	5/23/2007
	RL/Regulator Sign Rev 0 WI for -1607-F4	6/5/2007	6/12/2007
	RL/Regulator Review Draft A Closure Doc for -Pipeline	6/26/2007	8/9/2007
	RL/Regulator Sign.&Issue Rev 0 Closure Docm 116-F-15	7/3/2007	8/15/2007
	RL/Regulator review of Draft A Closure Docm. 116-F-15	7/12/2007	7/30/2007
	RL/Regulator Sign Rev 0 Closure Doc for Pipeline	8/13/2007	8/20/2007
	RL/Regulator Review Draft A Closure Doc for -1607-F-4	9/17/2007	10/30/2007
	RL/Regulator Sign Rev 0 Closure Doc for -1607-F4	10/23/2007	10/30/2007
	RL/Regulator Review Draft A WI for -118-F-8	5/2/2007	5/30/2007
	RL/Regulator Sign Rev 0 WI for -118-F-8	5/22/2007	5/30/2007
	RL/Regulator Review Draft A Closure Doc for -100-F-36	5/24/2007	7/11/2007
	RL/Regulator review of Draft A Closure Docm. 128-F-2	6/21/2007	7/19/2007
	RL/Regulator Sign Rev 0 Closure Doc for -100-F-36	7/3/2007	7/11/2007
	RL/Regulator Sign. & Issue Rev 0 Closure Docm.128-F-2	8/8/2007	8/14/2007
	RL/Regulator Review Draft A Closure Doc for -118-F-8	8/8/2007	9/24/2007
	RL/Regulator Sign Rev 0 Closure Doc for -118-F-8	9/17/2007	9/24/2007
	RL/Regulator Review Draft A WI for -1607-F1	4/11/2007	5/8/2007
	RL/Regulator Sign Rev 0 WI for -1607-F1	5/9/2007	5/16/2007
	RL/Regulator Review Draft A Closure Doc for -1607-F1	8/20/2007	10/3/2007
	RL/Regulator Sign Rev 0 Closure Doc for -1607-F1	9/26/2007	10/3/2007
	RL/Regulator Review Draft A Closure Doc for -118-F-5	9/13/2007	10/29/2007

Field Remediation
Sample Design and Cleanup Verification for the April 2007 UMM

AREA	DOE-RL/REGULATOR DELIVERABLE	START	FINISH
100-F Continued			
	RL/Regulator Review Draft A Closure Doc for -118-F-2	10/15/2007	11/29/2007
	RL/Regulator Sign Rev 0 Closure Doc for -118-F-5	10/22/2007	10/29/2007
	RL/Regulator review of Draft A Closure Docm. 118-F-6	11/1/2007	12/3/2007
	RL/Regulator Review Draft A Closure Doc for -118-F-1	11/1/2007	12/19/2007
	RL/Regulator Sign Rev 0 Closure Doc for -118-F-2	12/3/2007	12/10/2007
	Resolve/Incorp RL/Regulator Commnts Prep Rev.0 118-F-6	12/4/2007	12/5/2007
	RL/Regulator Sign Rev 0 Closure Doc for -118-F-1	12/12/2007	12/19/2007
	RL/Regulator Review Draft A WI 120-F-1	5/15/2007	6/5/2007
	RL/Regulator Approve/Signature Rev. 0 WI 120-F-1	6/13/2007	6/19/2007
	RL/Regulator Review Draft A Closure Doc for -120-F-1	9/13/2007	10/29/2007
	RL/Regulator Sign Rev 0 Closure Doc for -120-F-1	10/30/2007	11/6/2007
	RL/Regulator Review Draft A WI for 100-F-48	3/15/2007	4/30/2007
	RL/Regulator Review Draft A WI for 100-F-49	4/10/2007	5/7/2007
	RL/Regulator Review Draft A WI for 100-F-51	4/17/2007	5/14/2007
	RL/Regulator Review Draft A WI for 100-F-54	4/18/2007	5/15/2007
	RL/Regulator Review Draft A WI for 100-F-57	4/18/2007	5/15/2007
	RL/Regulator Review Draft A WI for 100-F-52	4/19/2007	5/16/2007
	RL/Regulator Sign Rev. 0 WI for 100-F-50	4/24/2007	5/1/2007
	RL/Regulator Review Draft A WI for 100-F-44	5/1/2007	5/29/2007
	RL/Regulator Review Draft A WI for 100-F-45	5/2/2007	5/30/2007
	RL/Regulator Sign Rev. 0 WI for 100-F-48	5/9/2007	5/16/2007
	RL/Regulator Review Draft A WI for 100-F-47	5/14/2007	6/11/2007
	RL/Regulator Review Draft A WI for 100-F-56	5/15/2007	6/12/2007
	RL/Regulator Sign Rev. 0 WI for 100-F-49	5/16/2007	5/23/2007
	RL/Regulator Sign Rev. 0 WI for 100-F-51	5/23/2007	5/31/2007
	RL/Regulator Sign Rev. 0 WI for 100-F-54	5/24/2007	6/4/2007
	RL/Regulator Sign Rev. 0 WI for 100-F-57	5/24/2007	6/4/2007
	RL/Regulator Sign Rev. 0 WI for 100-F-52	5/29/2007	6/5/2007
	RL/Regulator Sign Rev. 0 WI for 100-F-44	6/7/2007	6/14/2007
	RL/Regulator Sign Rev. 0 WI for 100-F-45	6/11/2007	6/18/2007
	RL/Regulator Sign Rev. 0 WI for 100-F-47	6/20/2007	6/27/2007
	RL/Regulator Sign Rev. 0 WI for 100-F-56	6/21/2007	6/28/2007
	RL/Regulator Review Draft A Closure Doc for 100-F-47	8/2/2007	9/18/2007
	RL/Regulator Review Draft A Closure Doc for 100-F-57	10/2/2007	11/14/2007
	RL/Regulator Sign Rev. 0 Closure Doc for 100-F-47	10/10/2007	10/17/2007
	RL/Regulator Review Draft A Closure Doc for 100-F-46	12/4/2007	1/22/2008
	RL/Regulator Sign Rev. 0 Closure Doc for 100-F-57	12/11/2007	12/18/2007
	RL/Regulator Review Draft A Closure Doc for 100-F-45	12/11/2007	1/29/2008
	RL/Regulator Review Draft A Closure Doc for 100-F-44	12/13/2007	1/31/2008
	RL/Regulator Review Draft A Closure Doc for 100-F-54	12/13/2007	1/31/2008
	RL/Regulator Review Draft A Closure Doc for 100-F-50	12/19/2007	2/6/2008
	RL/Regulator Review Draft A Closure Doc for 100-F-49	12/26/2007	2/11/2008
	RL/Regulator Review Draft A Closure Doc for 100-F-48	1/2/2008	2/14/2008
	RL/Regulator Review Draft A Closure Doc for 100-F-56	1/23/2008	3/10/2008
	RL/Regulator Review Draft A Closure Doc for 100-F-51	1/31/2008	3/18/2008
	RL/Regulator Review Draft A Closure Doc for 100-F-52	2/7/2008	3/25/2008
	RL/Regulator Sign Rev. 0 Closure Doc for 100-F-46	2/13/2008	2/21/2008
	RL/Regulator Review Draft A Closure Doc for 100-F-53	2/14/2008	4/1/2008
	RL/Regulator Sign Rev. 0 Closure Doc for 100-F-45	2/21/2008	2/28/2008
	RL/Regulator Sign Rev. 0 Closure Doc for 100-F-44	2/26/2008	3/4/2008
	RL/Regulator Sign Rev. 0 Closure Doc for 100-F-54	2/26/2008	3/4/2008
	RL/Regulator Sign Rev. 0 Closure Doc for 100-F-50	3/3/2008	3/10/2008

Field Remediation
Sample Design and Cleanup Verification for the April 2007 UMM

AREA	DOE-RL/REGULATOR DELIVERABLE	START	FINISH
100-F Continued			
	RL/Regulator Sign Rev. 0 Closure Doc for 100-F-49	3/5/2008	3/12/2008
	RL/Regulator Sign Rev. 0 Closure Doc for 100-F-48	3/11/2008	3/18/2008
	RL/Regulator Sign Rev. 0 Closure Doc for 100-F-56	4/1/2008	4/8/2008
	RL/Regulator Sign Rev. 0 Closure Doc for 100-F-51	4/9/2008	4/16/2008
	RL/Regulator Sign Rev. 0 Closure Doc for 100-F-52	4/16/2008	4/23/2008
	RL/Regulator Sign Rev. 0 Closure Doc for 100-F-53	4/23/2008	4/30/2008
100-D			
	RL/Regulator Review Draft A WI for 100-D-56	4/23/2007	5/17/2007
	RL/Regulator Sign Rev. 0 WI for 100-D-56	5/10/2007	5/17/2007
	RL/Regulator Review Draft A Closure Doc for 100-D-56	8/21/2007	10/4/2007
	RL/Regulator Review Draft A WI for 120-D-2	8/30/2007	9/27/2007
	RL/Regulator Sign Rev. 0 WI for 120-D-2	9/20/2007	9/27/2007
	RL/Regulator Sign Rev. 0 Closure Doc for 100-D-56	9/27/2007	10/4/2007
	RL/Regulator Review Draft A Closure Doc for 120-D-2	3/5/2008	3/26/2008
	RL/Regulator Sign Rev. 0 Closure Doc for 120-D-2	3/19/2008	3/26/2008
	RL/Regulator Review Draft A WI for 100-D-29	9/22/2008	1/6/2009
	RL/Regulator Sign Rev. 0 WI for 100-D-29	12/29/2008	1/6/2009
	RL/Regulator Review Draft A WI for UPR-100-D-5	1/7/2009	1/22/2009
	RL/Regulator Review Draft A WI for 100-D-1	1/13/2009	2/9/2009
	RL/Regulator Sign Rev. 0 WI for UPR-100-D-5	1/15/2009	1/22/2009
	RL/Regulator Sign Rev. 0 WI for 100-D-1	2/2/2009	2/9/2009
	RL/Regulator Review Draft A Closure Doc for 100-D-29	5/13/2009	6/29/2009
	RL/Regulator Sign Rev. 0 Closure Doc for 100-D-29	6/22/2009	6/29/2009
	RL/Regulator Review Draft A Closure Doc for UPR-100-D-5	8/5/2009	9/21/2009
	RL/Regulator Review Draft A Closure Doc for 100-D-1	8/25/2009	10/6/2009
	RL/Regulator Sign Rev. 0 Closure Doc for UPR-100-D-5	9/14/2009	9/21/2009
	RL/Regulator Sign Rev. 0 Closure Doc for 100-D-1	9/29/2009	10/6/2009
	RL/Regulator Review Draft A Closure Doc for 100-D-1	10/5/2009	10/6/2009
	RL/Regulator Review Draft A WI for 100-D-32	12/13/2007	1/15/2008
	RL/Regulator Review Draft A WI for 100-D-3	12/31/2007	1/28/2008
	RL/Regulator Sign Rev. 0 WI for 100-D-32	1/8/2008	1/15/2008
	RL/Regulator Sign Rev. 0 WI for 100-D-3	1/21/2008	1/28/2008
	RL/Regulator Review Draft A WI for 100-D-41	3/27/2008	4/23/2008
	RL/Regulator Review Draft A WI for 100-D-33	4/1/2008	4/28/2008
	RL/Regulator Review Draft A WI for 100-D-35	4/3/2008	4/30/2008
	RL/Regulator Sign Rev. 0 WI for 100-D-41	4/16/2008	4/23/2008
	RL/Regulator Sign Rev. 0 WI for 100-D-33	4/21/2008	4/28/2008
	RL/Regulator Sign Rev. 0 WI for 100-D-35	4/23/2008	4/30/2008
	RL/Regulator Review Draft A Closure Doc for 100-D-32	6/12/2008	7/8/2008
	RL/Regulator Review Draft A Closure Doc for 100-D-32	6/17/2008	7/8/2008
	RL/Regulator Sign Rev. 0 Closure Doc for 100-D-32	6/30/2008	7/8/2008
	RL/Regulator Review Draft A Closure Doc for 100-D-3	8/7/2008	9/23/2008
	RL/Regulator Sign Rev. 0 Closure Doc for 100-D-3	9/16/2008	9/23/2008
	RL/Regulator Review Draft A Closure Doc for 100-D-41	10/9/2008	11/24/2008
	RL/Regulator Review Draft A Closure Doc for 100-D-33	11/4/2008	12/22/2008
	RL/Regulator Sign Rev. 0 Closure Doc for 100-D-41	11/17/2008	11/24/2008
	RL/Regulator Sign Rev. 0 Closure Doc for 100-D-33	12/15/2008	12/22/2008
	RL/Regulator Review Draft A WI for 1607-D2:2	12/18/2008	2/5/2009
	RL/Regulator Review Draft A Closure Doc for 100-D-35	1/14/2009	3/2/2009
	RL/Regulator Sign Rev. 0 WI for 1607-D2:2	1/29/2009	2/5/2009
	RL/Regulator Sign Rev. 0 Closure Doc for 100-D-35	2/23/2009	3/2/2009
	RL/Regulator Review Draft A Closure Doc for 1607-D2:2	8/19/2009	10/5/2009

Field Remediation
Sample Design and Cleanup Verification for the April 2007 UMM

AREA	DOE-RL/REGULATOR DELIVERABLE	START	FINISH
100-D Continued			
	RL/Regulator Sign Rev. 0 Closure Doc for 1607-D2:2	9/28/2009	10/5/2009
	RL/Regulator Review Draft A WI for 126-D-2	9/23/2010	10/20/2010
	RL/Regulator Sign Rev. 0 WI for 126-D-2	10/13/2010	10/20/2010
	RL/Regulator Review Draft A Closure Doc for 126-D-2	3/7/2011	4/19/2011
	RL/Regulator Sign Rev. 0 Closure Doc for 126-D-2	4/12/2011	4/19/2011
	RL/Regulator Review Draft A WI for 100-D-30	5/3/2007	5/31/2007
	RL/Regulator Sign Rev. 0 WI for 100-D-30	5/23/2007	5/31/2007
	RL/Regulator Review Draft A Closure Doc for 100-D-30	8/14/2007	9/27/2007
	RL/Regulator Review Draft A WI for 100-D-2	8/30/2007	9/27/2007
	RL/Regulator Sign Rev. 0 WI for 100-D-2	9/20/2007	9/27/2007
	RL/Regulator Sign Rev. 0 Closure Doc for 100-D-30	9/20/2007	9/27/2007
	RL/Regulator Review Draft A Closure Doc for 100-D-2	2/20/2008	3/26/2008
	RL/Regulator Sign Rev. 0 Closure Doc for 100-D-2	3/19/2008	3/26/2008
	RL/Regulator Review Draft A WI for 100-D-31	11/25/2008	12/29/2008
	RL/Regulator Sign Rev. 0 WI for 100-D-31	1/8/2009	1/15/2009
	RL/Regulator Review Draft A WI for 116-D-5	1/22/2009	2/19/2009
	RL/Regulator Review Draft A WI for 116-DR-5	2/2/2009	3/2/2009
	RL/Regulator Sign Rev. 0 WI for 116-D-5	2/11/2009	2/19/2009
	RL/Regulator Sign Rev. 0 WI for 116-DR-5	2/24/2009	3/2/2009
	RL/Regulator Review Draft A Closure Doc for 100-D-31	4/16/2009	6/2/2009
	RL/Regulator Sign Rev. 0 Closure Doc for 100-D-31	6/24/2009	7/1/2009
	RL/Regulator Review Draft A Closure Doc for 116-D-5	9/16/2009	10/15/2009
	RL/Regulator Review Draft A Closure Doc for 116-DR-5	9/21/2009	10/19/2009
	RL/Regulator Review Draft A Closure Doc for 116-DR-5	10/5/2009	10/19/2009
	RL/Regulator Review Draft A Closure Doc for 116-D-5	10/7/2009	10/15/2009
	RL/Regulator Sign Rev. 0 Closure Doc for 116-D-5	10/8/2009	10/15/2009
	RL/Regulator Sign Rev. 0 Closure Doc for 116-DR-5	10/12/2009	10/19/2009
	RL/Regulator Review Draft A WI for 100-D-61	4/21/2011	5/18/2011
	RL/Regulator Sign Rev. 0 WI for 100-D-61	5/11/2011	5/18/2011
	RL/Regulator Review Draft A Closure Doc for 100-D-61	9/8/2011	10/24/2011
	RL/Regulator Sign Rev. 0 Closure Doc for 100-D-61	10/17/2011	10/24/2011
	RL/Regulator Review Draft A WI for 126-DR-1	7/26/2007	8/22/2007
	RL/Regulator Sign Rev. 0 WI for 126-DR-1	8/15/2007	8/22/2007
	RL/Regulator Review Draft A Closure Doc for 126-DR-1	2/11/2008	3/26/2008
	RL/Regulator Sign Rev. 0 Closure Doc for 126-DR-1	3/19/2008	3/26/2008
	RL/Regulator Review Draft A WI for 100-D-47	12/13/2007	1/15/2008
	RL/Regulator Review Draft A WI for 100-D-43	12/19/2007	1/21/2008
	RL/Regulator Review Draft A WI for 100-D-45	12/27/2007	1/15/2008
	RL/Regulator Sign Rev. 0 WI for 100-D-45	1/8/2008	1/15/2008
	RL/Regulator Sign Rev. 0 WI for 100-D-47	1/8/2008	1/15/2008
	RL/Regulator Sign Rev. 0 WI for 100-D-43	1/14/2008	1/21/2008
	RL/Regulator Review Draft A WI for 100-D-40	3/25/2008	4/21/2008
	RL/Regulator Sign Rev. 0 WI for 100-D-40	4/14/2008	4/21/2008
	RL/Regulator Review Draft A Closure Doc for 100-D-47	5/21/2008	7/8/2008
	RL/Regulator Review Draft A Closure Doc for 100-D-45	6/25/2008	7/15/2008
	RL/Regulator Sign Rev. 0 Closure Doc for 100-D-47	7/1/2008	7/8/2008
	RL/Regulator Review Draft A WI for 118-D-4	7/7/2008	7/31/2008
	RL/Regulator Review Draft A WI for 118-D-1	7/14/2008	8/7/2008
	RL/Regulator Sign Rev. 0 WI for 118-D-4	7/24/2008	7/31/2008
	RL/Regulator Sign Rev. 0 WI for 118-D-1	7/31/2008	8/7/2008
	RL/Regulator Review Draft A Closure Doc for 100-D-43	7/31/2008	9/16/2008
	RL/Regulator Review Draft A Closure Doc for 100-D-45	8/14/2008	9/10/2008
	RL/Regulator Sign Rev. 0 Closure Doc for 100-D-45	9/3/2008	9/10/2008

Field Remediation
Sample Design and Cleanup Verification for the April 2007 UMM

AREA	DOE-RL/REGULATOR DELIVERABLE	START	FINISH
100-D Continued			
	RL/Regulator Sign Rev. 0 Closure Doc for 100-D-43	9/9/2008	9/16/2008
	RL/Regulator Review Draft A Closure Doc for 100-D-40	10/1/2008	10/22/2008
	RL/Regulator Review Draft A WI for 118-D-5	10/15/2008	12/2/2008
	RL/Regulator Sign Rev. 0 Closure Doc for 100-D-40	10/21/2008	10/22/2008
	RL/Regulator Review Draft A WI for 118-D-1	10/21/2008	12/8/2008
	RL/Regulator Sign Rev. 0 WI for 118-D-5	11/20/2008	12/2/2008
	RL/Regulator Sign Rev. 0 WI for 118-D-1	12/1/2008	12/8/2008
	RL/Regulator Review Draft A WI for 118-D-3	12/16/2008	1/15/2009
	RL/Regulator Review Draft A Closure Doc for 118-D-4	12/31/2008	2/17/2009
	RL/Regulator Sign Rev. 0 WI for 118-D-3	1/8/2009	1/15/2009
	RL/Regulator Sign Rev. 0 Closure Doc for 118-D-4	2/9/2009	2/17/2009
	RL/Regulator Review Draft A Closure Doc for 118-D-1	4/16/2009	6/2/2009
	RL/Regulator Sign Rev. 0 Closure Doc for 118-D-1	5/26/2009	6/2/2009
	RL/Regulator Review Draft A Closure Doc for 118-D-5	6/17/2009	8/3/2009
	RL/Regulator Review Draft A Closure Doc for 118-D-1	7/1/2009	8/17/2009
	RL/Regulator Sign Rev. 0 Closure Doc for 118-D-5	7/27/2009	8/3/2009
	RL/Regulator Review Draft A Closure Doc for 118-D-3	7/29/2009	9/14/2009
	RL/Regulator Sign Rev. 0 Closure Doc for 118-D-1	8/10/2009	8/17/2009
	RL/Regulator Sign Rev. 0 Closure Doc for 118-D-3	9/3/2009	9/14/2009
	RL/Regulator Review Draft A WI for 118-D-2	9/10/2009	10/7/2009
	RL/Regulator Sign Rev. 0 WI for 118-D-2	9/30/2009	10/7/2009
	RL/Regulator Review Draft A Closure Doc for 118-D-2	3/24/2010	5/6/2010
	RL/Regulator Sign Rev. 0 Closure Doc for 118-D-2	4/29/2010	5/6/2010
	RL/Regulator Review Draft A WI for 116-D-8	9/21/2009	10/15/2009
	RL/Regulator Sign Rev. 0 WI for 116-D-8	10/8/2009	10/15/2009
	RL/Regulator Review Draft A Closure Doc for 116-D-8	4/13/2010	5/26/2010
	RL/Regulator Sign Rev. 0 Closure Doc for 116-D-8	5/19/2010	5/26/2010
	RL/Regulator review Draft A Closure Doc 10D-50:2	4/18/2007	5/22/2007
	RL/Regulator Sign & Issue Rev 0 Closure Doc.100-D-50:2	6/11/2007	6/14/2007
	RL/Regulator review of Draft A Closure Doc for 100-D-1	9/13/2007	10/17/2007
	DOE/EPA/Review & Approval AMP for 100 D Desin	4/9/2007	5/3/2007
100-H			
	RL/Regulator Review Draft A WI for 116-H-9	11/29/2007	12/31/2007
	RL/Regulator Sign Rev. 0 WI for 116-H-9	1/10/2008	1/17/2008
	RL/Regulator Review Draft A WI for 116-H-5	3/11/2008	4/7/2008
	RL/Regulator Review Draft A WI for 100H Mud Daubers	3/12/2008	4/8/2008
	RL/Regulator Sign Rev. 0 WI for 116-H-5	4/16/2008	4/23/2008
	RL/Regulator Sign Rev. 0 WI for 100H Mud Daubers	4/17/2008	4/24/2008
	RL/Regulator Review Draft A WI for 118-H-6	8/26/2008	9/23/2008
	RL/Regulator Review Draft A WI for 100-H-33	9/17/2008	10/14/2008
	RL/Regulator Sign Rev. 0 WI for 118-H-6	10/2/2008	10/9/2008
	RL/Regulator Review Draft A Clos Doc for 116-H-9	10/2/2008	11/17/2008
	RL/Regulator Sign Rev. 0 WI for 100-H-33	10/23/2008	10/30/2008
	RL/Regulator Sign Rev. 0 Closure Doc for 116-H-9	12/11/2008	12/18/2008
	RL/Regulator Review Draft A Clos Doc for 116-H-5	1/6/2009	2/19/2009
	RL/Regulator Review Draft A Clos Doc for 100H Mud Dauber	1/6/2009	2/19/2009
	RL/Regulator Sign Rev. 0 Closure Doc for 116-H-5	3/16/2009	3/23/2009
	RL/Regulator Sign Rev. 0 Closure Doc for 100H Mud Dauber	3/16/2009	3/23/2009
	RL/Regulator Review Draft A Clos Doc for 118-H-6	7/1/2009	8/17/2009
	RL/Regulator Review Draft A WI for 100-H-34	7/14/2009	8/10/2009
	RL/Regulator Review Draft A Clos Doc for 100-H-33	7/23/2009	9/8/2009
	RL/Regulator Sign Rev. 0 WI for 100-H-34	8/19/2009	8/26/2009

Field Remediation
Sample Design and Cleanup Verification for the April 2007 UMM

AREA	DOE-RL/REGULATOR DELIVERABLE	START	FINISH
100-H Continued			
	RL/Regulator Sign Rev. 0 Closure Doc for 118-H-6	9/9/2009	9/16/2009
	RL/Regulator Sign Rev. 0 Closure Doc for 100-H-33	10/1/2009	10/8/2009
	RL/Regulator Review Draft A Clos Doc for 100-H-34	5/18/2010	7/1/2010
	RL/Regulator Sign Rev. 0 Closure Doc for 100-H-34	7/27/2010	8/3/2010
	RL/Regulator Review Draft A WI for 600-152	12/26/2007	1/23/2008
	RL/Regulator Sign Rev. 0 WI for 600-152	2/4/2008	2/11/2008
	RL/Regulator Review Draft A WI for 118-H-1	8/25/2008	9/22/2008
	RL/Regulator Review Draft A WI for 118-H-2	9/25/2008	10/22/2008
	RL/Regulator Sign Rev. 0 WI for 118-H-1	10/1/2008	10/8/2008
	RL/Regulator Review Draft A Clos Doc for 600-152	10/27/2008	12/11/2008
	RL/Regulator Sign Rev. 0 WI for 118-H-2	11/3/2008	11/10/2008
	RL/Regulator Review Draft A WI for 118-H-3	11/3/2008	12/2/2008
	RL/Regulator Review Draft A WI for 118-H-4	11/10/2008	12/9/2008
	RL/Regulator Review Draft A WI for 118-H-5	11/12/2008	12/11/2008
	RL/Regulator Sign Rev. 0 WI for 118-H-3	12/11/2008	12/18/2008
	RL/Regulator Sign Rev. 0 WI for 118-H-4	12/18/2008	12/30/2008
	RL/Regulator Sign Rev. 0 WI for 118-H-5	12/23/2008	1/5/2009
	RL/Regulator Sign Rev. 0 Closure Doc for 600-152	1/8/2009	1/15/2009
	RL/Regulator Review Draft A Clos Doc for 118-H-1	6/30/2009	8/13/2009
	RL/Regulator Review Draft A Clos Doc for 118-H-2	8/3/2009	9/16/2009
	RL/Regulator Sign Rev. 0 Closure Doc for 118-H-1	9/8/2009	9/15/2009
	RL/Regulator Review Draft A Clos Doc for 118-H-3	9/9/2009	10/22/2009
	RL/Regulator Review Draft A Clos Doc for 118-H-4	9/16/2009	10/29/2009
	RL/Regulator Review Draft A Clos Doc for 118-H-5	9/21/2009	11/3/2009
	RL/Regulator Sign Rev. 0 Closure Doc for 118-H-2	10/8/2009	10/15/2009
	RL/Regulator Sign Rev. 0 Closure Doc for 118-H-3	11/16/2009	11/23/2009
	RL/Regulator Sign Rev. 0 Closure Doc for 118-H-4	11/23/2009	12/2/2009
	RL/Regulator Sign Rev. 0 Closure Doc for 118-H-5	11/30/2009	12/7/2009
	Regulator Approve/Sign Rev. 0 WI 100-H-28:9	4/2/2007	4/5/2007
	Regulator Approv/Sign Rev.0 Closure Doc 100-H-28:10	4/2/2007	4/5/2007
	RL/Regulator Review Draft A Closure Doc for 128-H-3	7/3/2007	8/16/2007
	RL/Regulator Review Draft A Closure Doc for 128-H-2	7/12/2007	8/27/2007
	RL/Regulator Sign Rev. 0 Closure Doc for 128-H-3	9/11/2007	9/18/2007
	RL/Regulator Sign Rev. 0 Closure Doc for 128-H-2	9/19/2007	9/26/2007
	RL/Regulator Review Draft A Closure Doc for 100-H-28:2	8/14/2008	9/30/2008
	RL/Regulator Review Draft A Closure Doc for 100-H-28:3	8/20/2008	10/6/2008
	RL/Regulator Review Draft A Closure Doc for 100-H-28:4	8/26/2008	10/9/2008
	RL/Regulator Review Draft A Closure Doc for 100-H-28:5	9/2/2008	10/15/2008
	RL/Regulator Review Draft A Closure Doc for 100-H-3	9/8/2008	10/21/2008
	RL/Regulator Review Draft A Closure Doc for 100-H-4	9/11/2008	10/27/2008
	RL/Regulator Review Draft A Closure Doc for 100-H-7	9/17/2008	10/30/2008
	RL/Regulator Sign Rev. 0 Closure Doc for 100-H-28:2	10/22/2008	10/29/2008
	RL/Regulator Sign Rev. 0 Closure Doc for 100-H-28:3	10/28/2008	11/4/2008
	RL/Regulator Sign Rev. 0 Closure Doc for 100-H-28:4	11/3/2008	11/10/2008
	RL/Regulator Sign Rev. 0 Closure Doc for 100-H-28:5	11/6/2008	11/13/2008
	RL/Regulator Sign Rev. 0 Closure Doc for 100-H-3	11/12/2008	11/19/2008
	RL/Regulator Sign Rev. 0 Closure Doc for 100-H-4	11/18/2008	11/25/2008
	RL/Regulator Sign Rev. 0 Closure Doc for 100-H-7	11/24/2008	12/3/2008
100-N			
	Regulator Sign Rev 0 Closure Doc for 116-N-1	3/26/2007	3/29/2007
	DOE Review Bid for 100 N Design	2/29/2008	3/29/2008
	RL/Regulator Review Draft A WI for 100-N-28	11/27/2007	12/26/2007

Field Remediation
Sample Design and Cleanup Verification for the April 2007 UMM

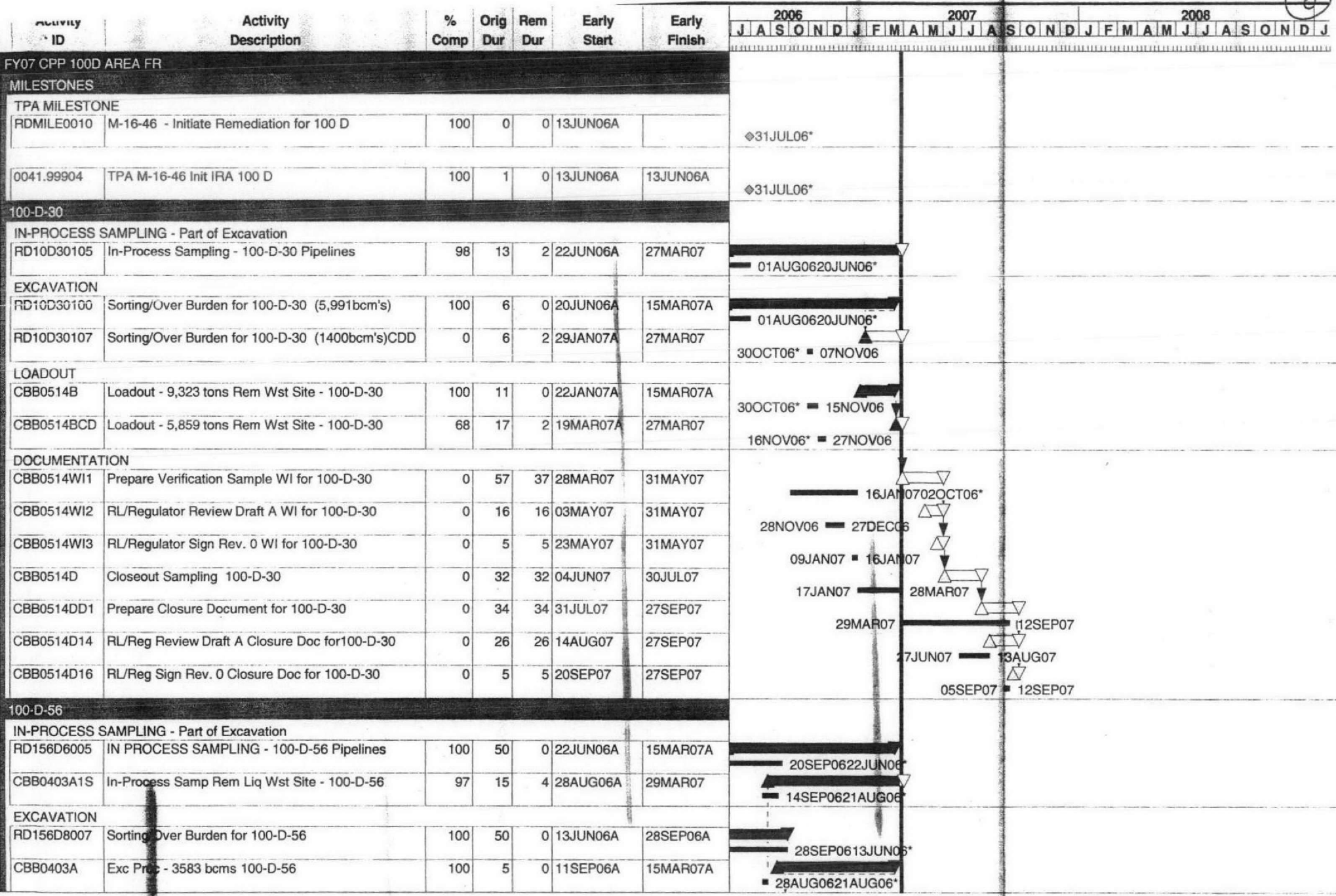
AREA	DOE-RL/REGULATOR DELIVERABLE	START	FINISH
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	RL/Regulator Review Draft A WI for 100-N-53	12/4/2007	1/3/2008
	RL/Regulator Review Draft A WI for 100-N-55	12/11/2007	1/10/2008
	RL/Regulator Review Draft A WI for 100-N-65	12/18/2007	1/17/2008
	RL/Regulator Review Draft A WI for 100-N-66	12/27/2007	1/24/2008
	RL/Regulator Review Draft A WI for 100-N-68	1/7/2008	1/31/2008
	RL/Regulator Sign Rev. 0 WI for 100-N-28	1/8/2008	1/15/2008
	RL/Regulator Review Draft A WI for 100-N-79	1/14/2008	2/7/2008
	RL/Regulator Sign Rev. 0 WI for 100-N-53	1/15/2008	1/22/2008
	RL/Regulator Review Draft A WI 100-N-62 Pipes	1/21/2008	2/14/2008
	RL/Regulator Review Draft A WI for 120-N-4	1/21/2008	2/14/2008
	RL/Regulator Review Draft A WI for 628-2	1/21/2008	2/14/2008
	RL/Regulator Sign Rev. 0 WI for 100-N-55	1/22/2008	1/29/2008
	RL/Regulator Sign Rev. 0 WI for 100-N-65	1/29/2008	2/5/2008
	RL/Regulator Sign Rev. 0 WI for 100-N-66	2/5/2008	2/12/2008
	RL/Regulator Sign Rev. 0 WI for 100-N-68	2/12/2008	2/20/2008
	RL/Regulator Sign Rev. 0 WI for 100-N-79	2/20/2008	2/27/2008
	RL/Regulator Sign Rev. 0 WI 100-N-62 Pipes	2/27/2008	3/5/2008
	RL/Regulator Sign Rev. 0 WI for 120-N-4	2/27/2008	3/5/2008
	RL/Regulator Sign Rev. 0 WI for 628-2	2/27/2008	3/5/2008
	RL/Regulator Review Draft A WI 100 N Misc Pipe	4/17/2008	5/14/2008
	RL/Regulator Sign Rev. 0 WI 100N Misc Pipe	5/27/2008	6/3/2008
	RL/Regulator Review Draft A Closure Doc for 100-N-28	5/29/2008	7/15/2008
	RL/Regulator Review Draft A Closure Doc for 100-N-53	6/5/2008	7/22/2008
	RL/Regulator Review Draft A Closure Doc for 100-N-55	6/12/2008	7/29/2008
	RL/Regulator Review Draft A Closure Doc for 100-N-65	7/14/2008	8/26/2008
	RL/Regulator Review Draft A Closure Doc for 100-N-66	7/21/2008	9/3/2008
	RL/Regulator Review Draft A Closure Doc 100-N-62 Pipes	7/28/2008	9/10/2008
	RL/Regulator Review Draft A Closure Doc for 100-N-68	7/28/2008	9/10/2008
	RL/Regulator Review Draft A Closure Doc for 100-N-79	8/4/2008	9/17/2008
	RL/Regulator Sign Rev. 0 Closure Doc for 100-N-28	8/6/2008	8/13/2008
	RL/Regulator Sign Rev. 0 Closure Doc for 100-N-53	8/13/2008	8/20/2008
	RL/Regulator Sign Rev. 0 Closure Doc for 100-N-55	8/20/2008	8/27/2008
	RL/Regulator Review Draft A Closure Doc for 120-N-4	9/2/2008	10/15/2008
	RL/Regulator Review Draft A Closure Doc for 628-2	9/9/2008	10/22/2008
	RL/Regulator Review Draft A Closure Doc 100N Misc Pipe	9/16/2008	10/29/2008
	RL/Regulator Sign Rev. 0 Closure Doc for 100-N-65	9/18/2008	9/25/2008
	RL/Regulator Sign Rev. 0 Closure Doc for 100-N-66	9/25/2008	10/2/2008
	RL/Regulator Sign Rev. 0 Closure Doc 100-N-62 Pipes	10/2/2008	10/9/2008
	RL/Regulator Sign Rev. 0 Closure Doc for 100-N-68	10/2/2008	10/9/2008
	RL/Regulator Sign Rev. 0 Closure Doc for 100-N-79	10/9/2008	10/16/2008
	RL/Regulator Sign Rev. 0 Closure Doc for 120-N-4	11/6/2008	11/13/2008
	RL/Regulator Sign Rev. 0 Closure Doc for 628-2	11/13/2008	11/20/2008
	RL/Regulator Sign Rev. 0 Closure Doc 100N Misc Pipe	11/20/2008	12/2/2008
100 AREA			
	RL/Regulator Review of Draft A ESD for 100 Area	5/2/2007	7/24/2007

Attachment 7

Activity ID	Activity Description	IPBS	% Comp	Early Start	Early Finish	Earned value cost (BCWP)	Target 1 Budgeted Cost	2005	2006	2007	2008
FKC7 FY06 CPP 100K AREA FR CURRENT											
Total			54	30MAY06A	27SEP07	1,693,369.06	2,702,959.36				
1.01.04.01.07.F8.05 Loadout											
+ ADA07F8M TPA 100K											
		ADA07F8M	100		23MAR07A	0.00	0.00				
1.03.05.03.06.02.01 Excavation process											
CEC0602A											
RKDPM6020A	Excavation/Sorting Process Revisions	CEC0602A	73	30MAY06A	24MAY07	349,301.37	475,887.43				
RKICP20100	118-K-1 Excavation (ICP 20)	CEC0602A	0	29MAY07	28JUN07	0.00	124,472.42				
RKICP20110	118-K-1 Excavation over IPB qty. (ICP 20)	CEC0602A	0	02JUL07	27SEP07	0.00	0.00				
1.03.05.03.06.02.02 Loadout											
CEC0602B											
RK18K18020	Loadout for 118-K-1	CEC0602B	100	30MAY06A	26FEB07A	1,052,426.45	1,052,426.45				
RK18K18060	118-K-1 Loadout (ICP 20)	CEC0602B	100	27FEB07A	23MAR07A	191,389.48	191,389.48				
RK18K18070	118-K-1 Loadout over IPB qty. (ICP 20)	CEC0602B	1	23MAR07A	02JUL07	8,641.01	664,693.00				
1.03.05.75.25.01.01 Fld. Rem.-100K Non Site Specific Support											
+ CER2501A3 100K Area Non Site Specific FY07											
		CER2501A3	47	02OCT06A	27SEP07	91,610.75	194,090.58				

Attachment 8

8



Start Date: 29AUG05
 Finish Date: 27SEP12
 Data Date: 26MAR07
 Run Date: 10APR07 15:04

FDC7

WASHINGTON CLOSURE HANFORD

100-D AREA FILED REMEDIATION

MARCH FY07 STATUS

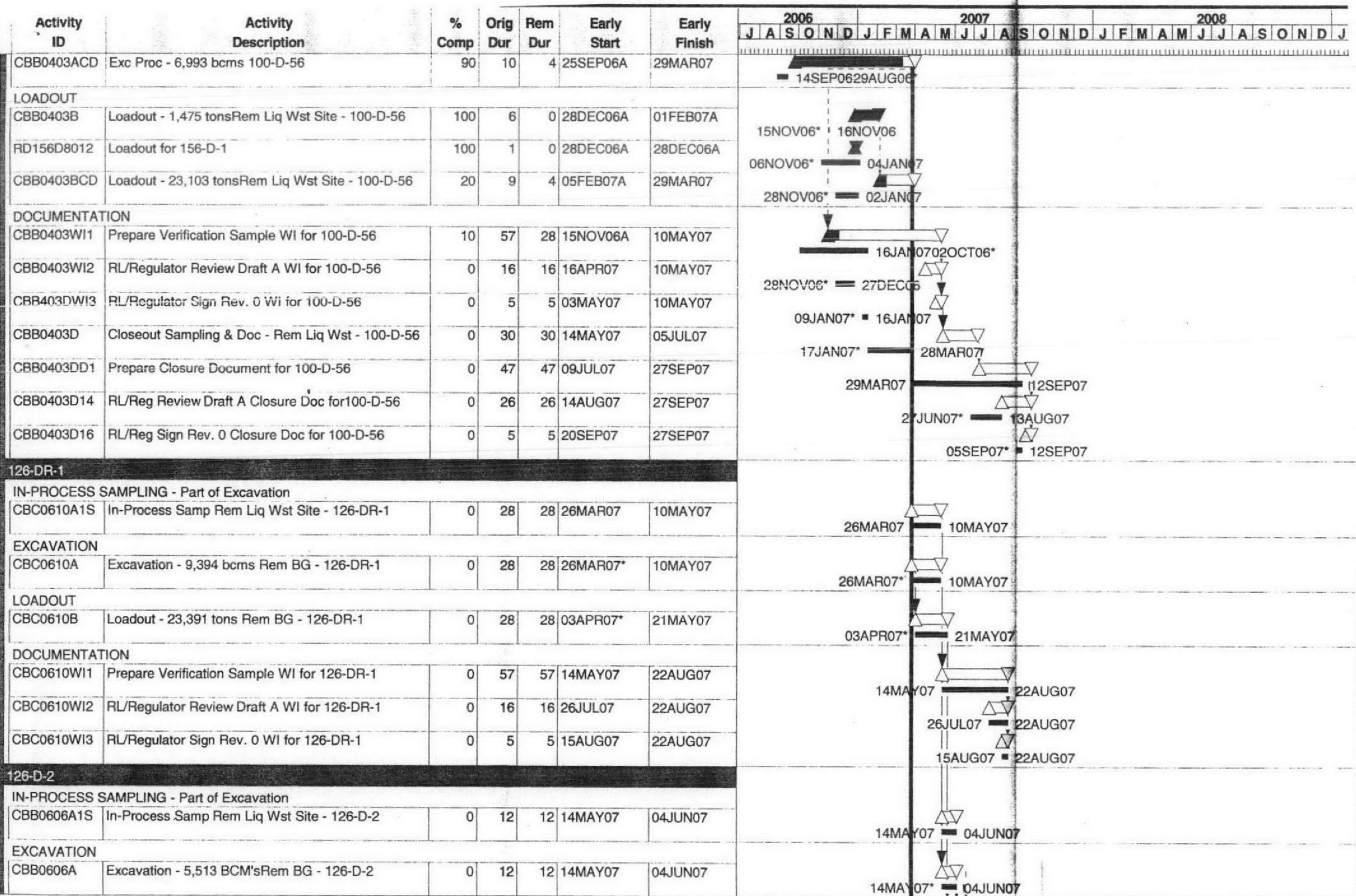
Sheet 1 of 7

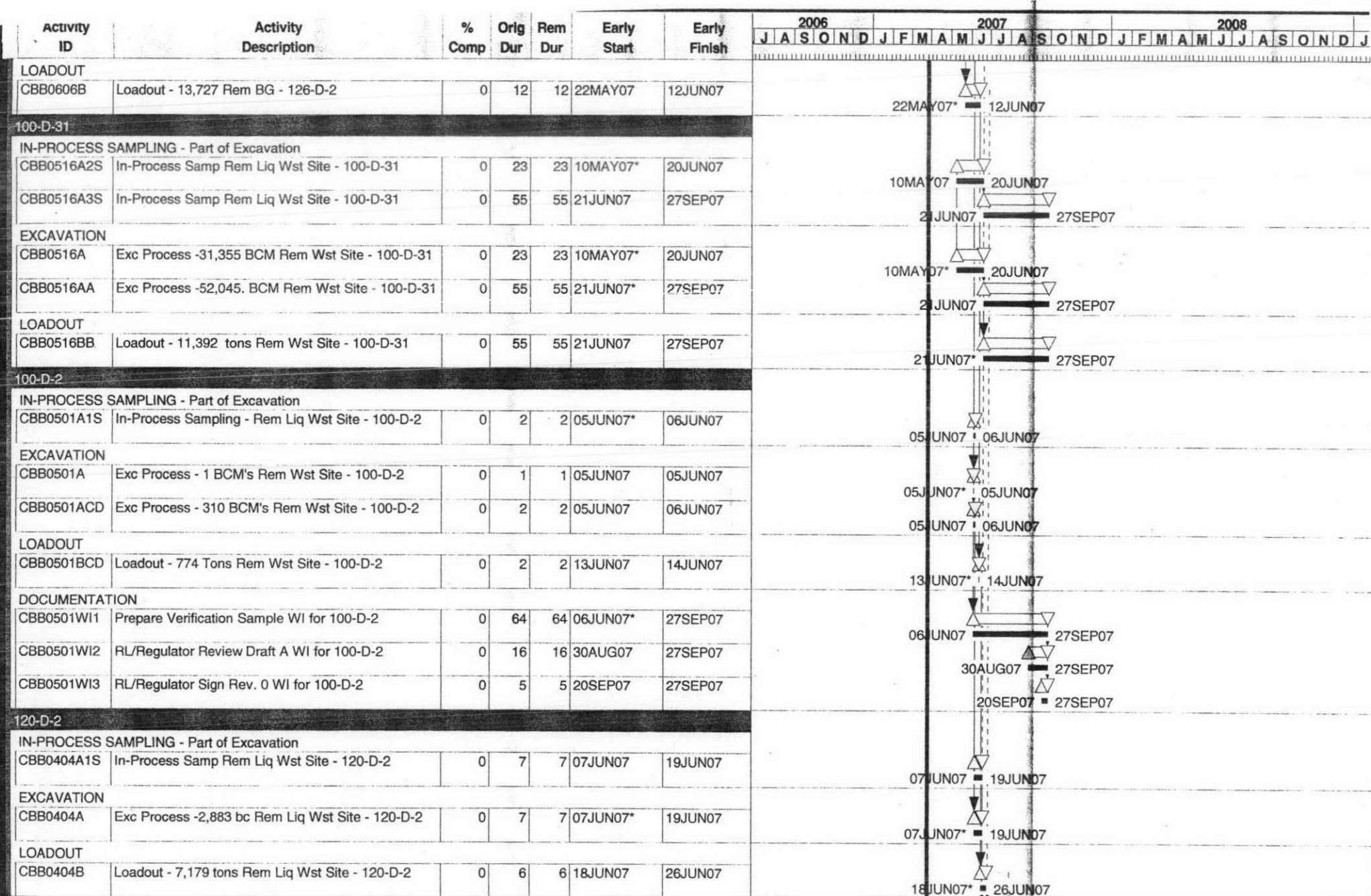
Date	Revision	Checked	Approved

Legend:

- △ Early Bar
- ▬ TARGET
- ▬ Progress Bar
- ▬ Critical Activity

© Primavera Systems, Inc.





Start Date 29AUG05
 Finish Date 27SEP12
 Data Date 26MAR07
 Run Date 10APR07 15:04

Early Bar
 TARGET
 Progress Bar
 Critical Activity

FDC7

WASHINGTON CLOSURE HANFORD

100-D AREA FILED REMEDIATION

MARCH FY07 STATUS

Sheet 3 of 7

Date	Revision	Checked	Approved



Start Date 29AUG05
 Finish Date 27SEP12
 Start Date 26MAR07
 End Date 10APR07 15:04

Early Bar
 TARGET
 Progress Bar
 Critical Activity

FDC7

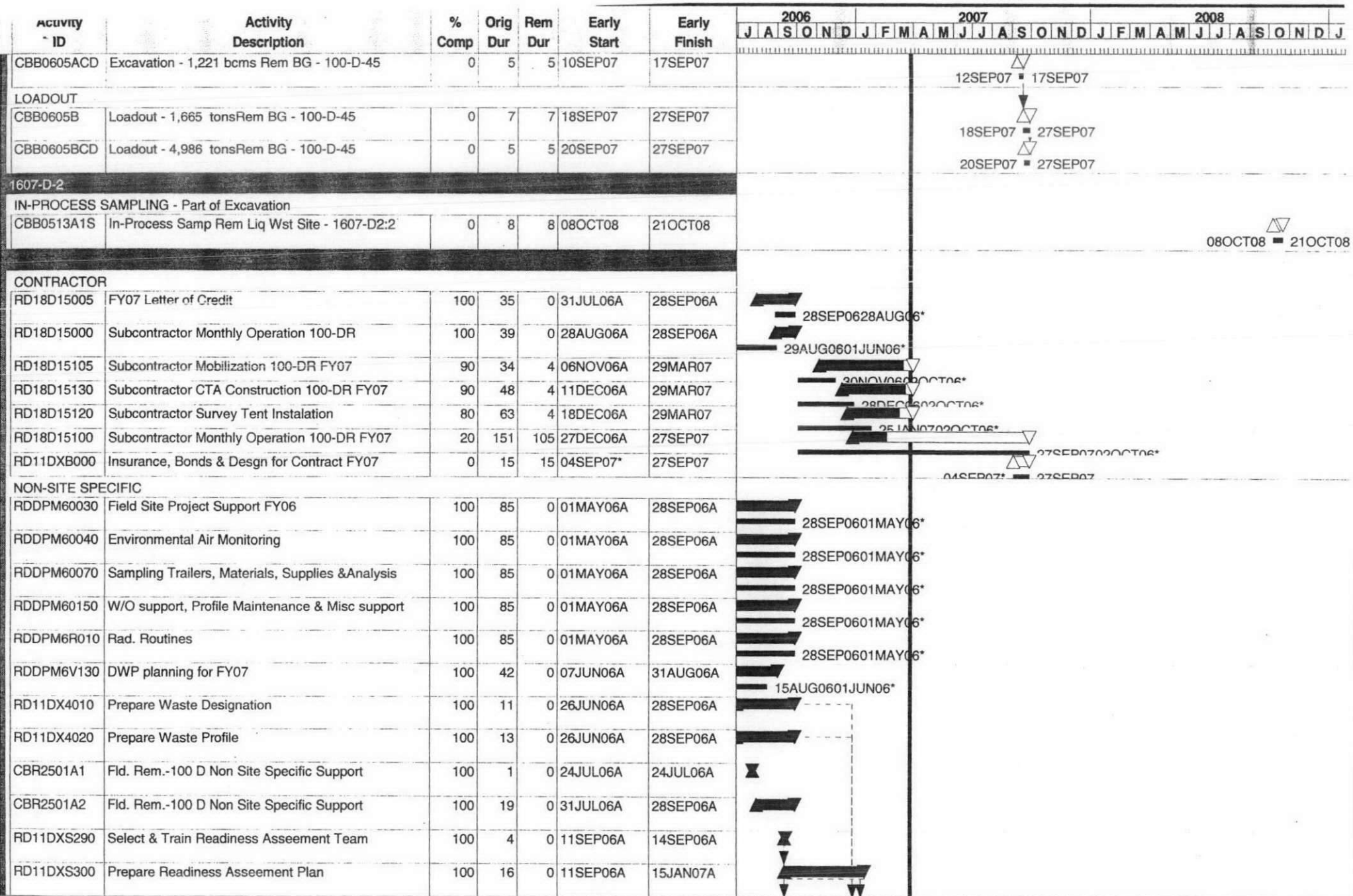
WASHINGTON CLOSURE HANFORD

100-D AREA FILED REMEDIATION

MARCH FY07 STATUS

Sheet 4 of 7

Date	Revision	Checked	Approved



Activity ID	Activity Description	% Comp	Orig Dur	Rem Dur	Early Start	Early Finish	2006												2007												2008																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																			
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Attachment 9

(9)

Golden, James W

From: Callison, Stacey W
Sent: Tuesday, March 06, 2007 12:39 PM
To: Golden, James W; Dittmer, Lorna M
Subject: FW: 100-F Waste Stockpile Areas

fyi

-----Original Message-----

From: Lobos.Rod@epamail.epa.gov [mailto:Lobos.Rod@epamail.epa.gov]
Sent: Tuesday, March 06, 2007 12:27 PM
To: Callison, Stacey W
Cc: Douglas_C_Chris_Smith@rl.gov; Fancher, Jonathan D (Jon)
Subject: Re: 100-F Waste Stockpile Areas

Chris & Stacey,
The areas identified are ok for staging. I would ask you guys to mark the ground surface (straw, stakes, plastic, etc) or survey to have a good idea of where original ground surface is when the staging material is picked up.

Rod Lobos
Remedial Project Manager
Environmental Protection Agency, Region 10 Hanford Project Office
(509) 376-3749

"Callison,
Stacey W"
<stacey.callison
@wch-rcc.com>

03/05/2007 04:40
PM

Rod Lobos/R10/USEPA/US@EPA

Douglas_C_Chris_Smith@rl.gov,
"Fancher, Jonathan D (Jon)"
<JDFANCHE@wch-rcc.com>

To

cc

Subject

100-F Waste Stockpile Areas

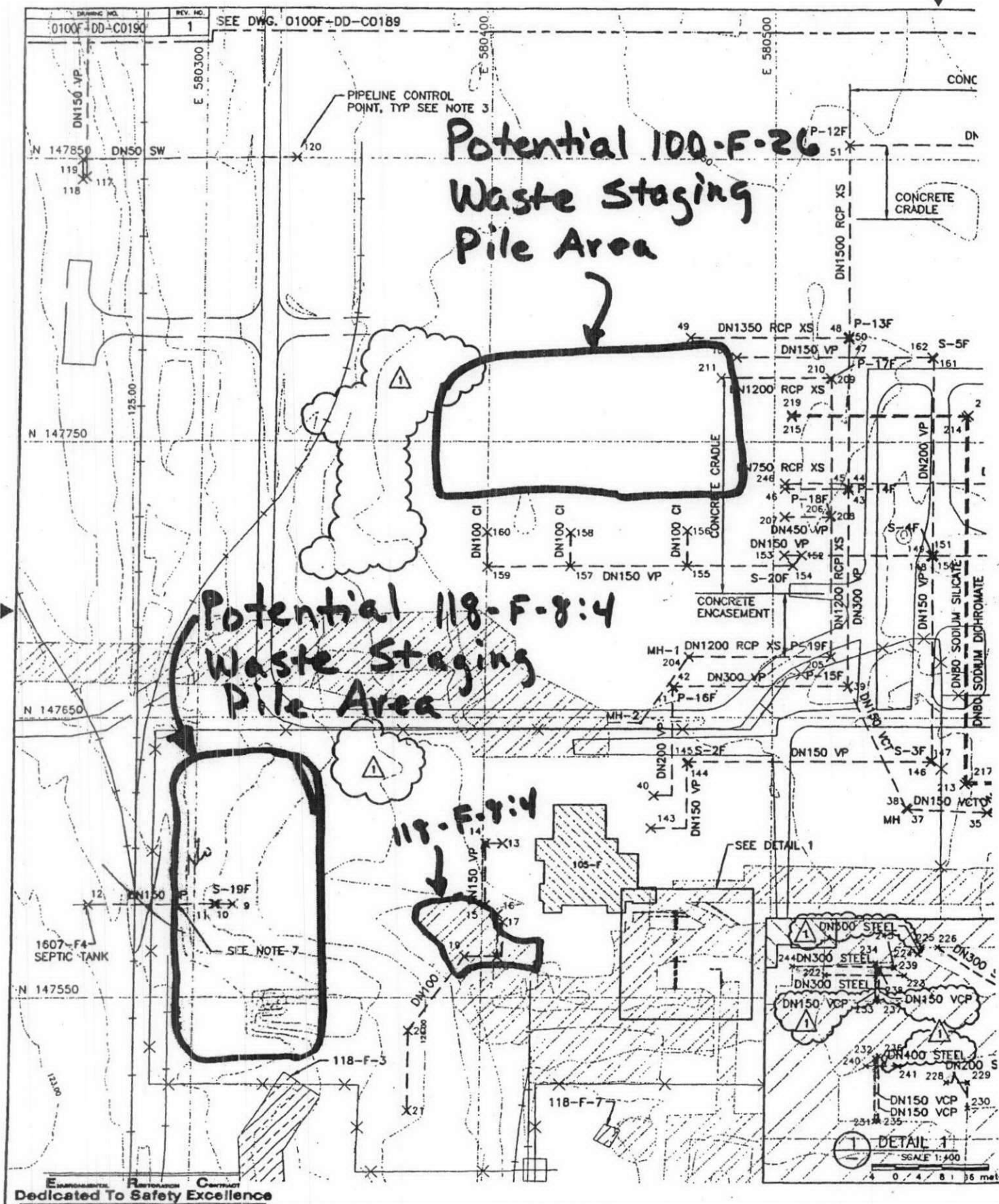
Rod -

As we discussed over the phone this afternoon, attached is a waste stockpile area figure for the 118-F-8:4 fuel storage basin soil contamination area for your review. This area is in addition to the 100-F-26 pipeline staging areas in a previous email. The fuel storage basin soil contamination area was deferred by D&D to Field Remediation during interim safe storage of the 105-F Building a number of years ago. Staging of waste from the 118-F-8:4 site was not planned, but is now necessary because of the current limited ERDF container capacity and because of upcoming seasonal restrictions associated with bat roosting on the reactor building.

Please take a look and let Jon or myself know if you have any comments or questions.
Thanks.

* Stacey Callison
509-778-1821

<<100-F stockpile areas.PDF>> [attachment "100-F stockpile areas.PDF"
deleted by Rod Lobos/R10/USEPA/US]



Attachment 10

Golden, James W

From: ^WCH Document Control
Sent: Wednesday, February 14, 2007 3:06 PM
To: Golden, James W
Subject: RE: Spills in clean areas being used to support a CERCLA remediation activity.

Jim

The CCN number will be:

132238

Diana

-----Original Message-----

From: Golden, James W
Sent: Wednesday, February 14, 2007 2:55 PM
To: ^WCH Document Control
Cc: Wilkinson, Stephen G; Landon, Roger J; Donnelly, Jack W; Peloquin, Michael G
Subject: FW: Spills in clean areas being used to support a CERCLA remediation activity.

This email documents a regulatory decision. Please provide a chron #.

Thanks,
Jim
521-0877

-----Original Message-----

From: Einar.David@epamail.epa.gov [mailto:Einar.David@epamail.epa.gov]
Sent: Wednesday, February 14, 2007 2:50 PM
To: Golden, James W
Cc: Smith, Chris; Golden, James W; Hynes, Robert T; Faulk.Dennis@epamail.epa.gov
Subject: Re: Spills in clean areas being used to support a CERCLA remediation activity.

Jim--

I agree with what you have outlined below.

Dave Einar

One hydrogen atom remarked, "I lost my electron." The second atom asked, "Are you sure?"
The first replied, "Yes. I'm positive."

"Golden, James
W"
<james.golden@wch-
h-rcc.com>

02/14/2007 11:19
AM

David Einar/R10/USEPA/US@EPA

To
cc

"Smith, Chris"
<Douglas_C_Chris_Smith@rl.gov>,
"Hynes, Robert T"
<robert.hynes@wch-rcc.com>,
"Golden, James W"
<james.golden@wch-rcc.com>

Subject
Spills in clean areas being used
to support a CERCLA remediation
activity.

Dave:

Per our discussion earlier today, spills that occur in clean areas which are being used in support of a CERCLA remediation, are appropriate for disposal at the ERDF, when the following conditions exist:

1. The spill occurred from equipment supporting the CERCLA activity.
2. The waste meets the ERDF waste acceptance criteria.
2. The spill occurred within the CERCLA operable unit boundary or onsite area.

A "clean area" is defined as an area supporting a CERCLA remediation activity, that is not contaminated with the contaminants of concern (COC's) found in the active remediation areas.

Please provide your concurrence on this email and/ or provide clarifications where needed.

Thanks for your help with this Dave,

Jim
521-0877

Donnelly, Jack W

From: Saueressig, Daniel G
Sent: Wednesday, April 18, 2007 1:13 PM
To: Donnelly, Jack W
Subject: FW: Spills in clean areas being used to support a CERCLA remediation activity.

Jack, I'd like this included in the UMM minutes if it's not to much trouble.

Thanks,

Dan Saueressig
100 Area D4 Environmental
373-5473 (office)
521-5326 (cell)

-----Original Message-----

From: ^WCH Document Control
Sent: Monday, March 05, 2007 4:16 PM
To: Saueressig, Daniel G
Subject: RE: Spills in clean areas being used to support a CERCLA remediation activity.

Dan -

The CCN number will be 132441.

Diana

-----Original Message-----

From: Saueressig, Daniel G
Sent: Monday, March 05, 2007 4:11 PM
To: ^WCH Document Control
Cc: Nielson, Robert R; Ehlis, Jeffrey J; Bidstrup, Robert H
Subject: FW: Spills in clean areas being used to support a CERCLA remediation activity.

This email documents a regulatory decision, please provide a chron #.

Thanks,

Dan Saueressig
100 Area D4 Environmental
373-5473 (office)
521-5326 (cell)

-----Original Message-----

From: Bond, Rick (ECY) [mailto:FBON461@ECY.WA.GOV]
Sent: Monday, March 05, 2007 3:03 PM
To: Saueressig, Daniel G
Cc: kent_r_westover@rl.gov
Subject: RE: Spills in clean areas being used to support a CERCLA remediation activity.

Yes, I agree with what is outlined below and agreed to by EPA, Dave Einan.
Rick Bond

Facility Transition Project Manager
Washington State Department of Ecology
3100 Port of Benton Richland, WA99354
(509) 372-7885
e-mail: FBON461@ECY.WA.GOV

-----Original Message-----

From: Saueressig, Daniel G [mailto:dgsauere@wch-rcc.com]

Sent: Monday, March 05, 2007 1:23 PM

To: Bond, Rick (ECY)

Cc: kent_r_westover@rl.gov

Subject: Spills in clean areas being used to support a CERCLA remediation activity.

Rick, WCH has received concurrence from EPA related to managing spills in clean areas under CERCLA (see below). Is this something you can support? If so, please reply with your concurrence.

Thanks,

Dan Saueressig
100 Area D4 Environmental
373-5473 (office)
521-5326 (cell)

-----Original Message-----

From: Einan.David@epamail.epa.gov [mailto:Einan.David@epamail.epa.gov]

Sent: Wednesday, February 14, 2007 2:50 PM

To: Golden, James W

Cc: Smith, Chris; Golden, James W; Hynes, Robert T; Faulk.Dennis@epamail.epa.gov

Subject: Re: Spills in clean areas being used to support a CERCLA remediation activity.

Jim--

I agree with what you have outlined below.

Dave Einan

One hydrogen atom remarked, "I lost my electron." The second atom asked, "Are you sure?" The first replied, "Yes. I'm positive."

"Golden, James

W"

<james.golden@wch-rcc.com>

02/14/2007 11:19 AM

David Einan/R10/USEPA/US@EPA

To

CC

"Smith, Chris"

<Douglas_C_Chris_Smith@rl.gov>,

"Hynes, Robert T"

<robert.hynes@wch-rcc.com>,

"Golden, James W"

<james.golden@wch-rcc.com>

Subject

Spills in clean areas being used to support a CERCLA remediation activity.

Dave:

Per our discussion earlier today, spills that occur in clean areas which are being used in support of a CERCLA remediation, are appropriate for disposal at the ERDF, when the

following conditions exist:

1. The spill occurred from equipment supporting the CERCLA activity.
2. The waste meets the ERDF waste acceptance criteria.
2. The spill occurred within the CERCLA operable unit boundary or onsite area.

A "clean area" is defined as an area supporting a CERCLA remediation activity, that is not contaminated with the contaminants of concern (COC's) found in the active remediation areas.

Please provide your concurrence on this email and/ or provide clarifications where needed.

Thanks for your help with this Dave,

Jim
521-0877

Donnelly, Jack W

From: Golden, James W
Sent: Monday, April 23, 2007 1:52 PM
To: Donnelly, Jack W
Subject: FW: Spills in clean areas being used to support a CERCLA remediation activity.

Jack:

Here's the Ecology approval.

Jim
521-0877

-----Original Message-----

From: Golden, James W
Sent: Wednesday, February 28, 2007 11:18 AM
To: Landon, Roger J; Donnelly, Jack W
Cc: Peloquin, Michael G; Hynes, Robert T
Subject: FW: Spills in clean areas being used to support a CERCLA remediation activity.

-----Original Message-----

From: Jones, Mandy (ECY) [mailto:mjon461@ECY.WA.GOV]
Sent: Wednesday, February 28, 2007 10:37 AM
To: Golden, James W
Cc: Price, John (ECY)
Subject: RE: Spills in clean areas being used to support a CERCLA remediation activity.

Jim, Ecology believes we can agree to this outline as written below.
As we have discussed we should probably bring this up at the next UMM and document it as an agreement.

Thanks,
Mandy

-----Original Message-----

From: Golden, James W [mailto:james.golden@wch-rcc.com]
Sent: Thursday, February 15, 2007 11:26 AM
To: Jones, Mandy (ECY)
Subject: FW: Spills in clean areas being used to support a CERCLA remediation activity.

-----Original Message-----

From: Einar.David@epamail.epa.gov
To: Golden, James W
Cc: Smith, Chris; Golden, James W; Hynes, Robert T; Faulk.Dennis@epamail.epa.gov
Sent: 2/14/2007 2:50 PM
Subject: Re: Spills in clean areas being used to support a CERCLA remediation activity.

Jim--

I agree with what you have outlined below.

Dave Einar

One hydrogen atom remarked, "I lost my electron." The second atom asked, "Are you sure?"
The first replied, "Yes. I'm positive."

"Golden, James
W"
<james.golden@wch-
h-rcc.com>

02/14/2007 11:19
AM

David Einan/R10/USEPA/US@EPA
To
cc
"Smith, Chris"
<Douglas_C_Chris_Smith@rl.gov>,
"Hynes, Robert T"
<robert.hynes@wch-rcc.com>,
"Golden, James W"
<james.golden@wch-rcc.com>
Subject
Spills in clean areas being used
to support a CERCLA remediation
activity.

Dave:

Per our discussion earlier today, spills that occur in clean areas which are being used in support of a CERCLA remediation, are appropriate for disposal at the ERDF, when the following conditions exist:

1. The spill occurred from equipment supporting the CERCLA activity.
2. The waste meets the ERDF waste acceptance criteria.
2. The spill occurred within the CERCLA operable unit boundary or onsite area.

A "clean area" is defined as an area supporting a CERCLA remediation activity, that is not contaminated with the contaminants of concern (COC's) found in the active remediation areas.

Please provide your concurrence on this email and/ or provide clarifications where needed.

Thanks for your help with this Dave,

Jim
521-0877

Attachment 11

3.0 REMEDIAL ACTION APPROACH AND MANAGEMENT

Initiation of full-scale remedial action to accomplish the goals set forth in the RODs (EPA 1995, 1997a, 1999, 2000a, 2000b) requires completion of numerous interdependent tasks. Key tasks are illustrated in the flowchart presented in Figure 3-1. Activities or documents requiring regulatory agency approval are specifically identified in this document. Other documents or activities described in this document are presented for information purposes only, and are not subject to regulatory agency review or approval.

3.1.2 Excavation

Excavation begins when the in situ analytical system has obtained sufficient data to characterize the site's initial conditions (initial conditions are used for database purposes) and the excavation subcontractor receives notification to begin work. Excavation of the designated work site involves removing clean and contaminated soils, debris, and anomalous waste present within the site boundaries. Anomalous waste is defined as waste discovered during the removal action that is not readily identifiable using process knowledge, historical documents, or sample data from similar items. Anomalous waste must be segregated from the general waste site excavation material because of special handling, characterization and/or treatment requirements prior to disposal. The soils exposed during excavation are monitored for radiological and hazardous constituents as defined in the 100 Area SAP (DOE-RL 2005) and the 100 Area Burial Grounds SAP (DOE-RL 2001a). The in situ analytical system provides in situ characterization and analysis of radiologically-contaminated soil.

Change 1st Bullet

Material that is above cleanup levels and within the ERDF waste acceptance criteria (WAC) (BHI 2002) will be loaded into containers at the excavation site.

Rewrite 2nd bullet

Anomalous waste (e.g., drums, intact containers, unknown materials) and/or material above cleanup levels that is not within the ERDF waste acceptance criteria (BHI 2002) will be set aside within the AOC, staging piles or other approved areas for further characterization and final disposition (see Section 4.0). Land Disposal Restricted wastes stored outside of the AOC, cannot be returned to the AOC.

As needed, appropriate inerting materials may be added to drums that contain waste with pyrophoric properties. Waste that is subsequently identified for ERDF disposal or staging will be directed as described previously, with the exception that drummed waste will be transported on flatbed trailers or other DOT compliant method. Excavated material sent to facilities other than ERDF for treatment and/or disposal will be stockpiled within the AOC or staging piles or drummed and stored within the AOC, staging piles or onsite area, until loaded for offsite shipment. Identification of an

appropriate treatment and/or disposal facility, and arrangements for loading and transporting excavated material to facilities other than ERDF will be made on a case-by-case basis. Prior to shipment, an offsite determination must be obtained from the EPA for receipt, storage, treatment and disposal of CERCLA waste at the identified treatment/disposal facility.

Add after 3rd bullet on page 3-3 of existing RDR/RAWP:

In certain situations, soil may be replaced over a material excavated within a waste site as a temporary measure. Such action may be undertaken for safety purposes when, for example, a high dose item is uncovered, and a temporary reburial is appropriate to control worker exposure. Temporary covering with soil may also be undertaken to prevent windborne dispersal of excavated material or highly-contaminated soil and to maintain segregation from other waste site materials. These temporary measures may be undertaken while plans are developed for safe re-excavation and removal of waste site materials.

Excavated material may be returned to an excavation area in situations where the dose rates, contamination levels or other requirements associated with a transportation container exceed normal transport requirements. In these situations, the previously excavated material soil may be returned into the excavation site, mixed, and reloaded into the transportation container. Notification to the lead regulatory agency is generally not required for these actions; however, notification shall be provided if the returned materials are not re-excavated from the waste site.

Last Paragraph page 3-3 Delete (i.e. by folding and securing the liner over the load)

Last paragraph of Section 3.1.2:

Excavated material will be surveyed and characterized for appropriate disposition prior to undertaking disposal. When excavation of a waste site is believed to be completed, exposed dig faces will be evaluated to verify the RAOs have been met. When RAOs have been met and verified, site backfill will be authorized. (Note: Unless specified otherwise, the term "backfill" as used in this document refers to filling in the excavation area after waste site remediation is complete.) Clean backfill material is obtained from clean material storage areas, approved/clean rubble, and local borrow sites. Excavations are backfilled so the sites conform to the local topography.

Notification Protocol

When notification to the lead regulatory agency is required by this RDR/RAWP, the responsible RL operable unit manager or his designee (which may be contractor personnel) will notify the EPA or Ecology operable unit manager for the associated waste site by telephone or in person. In the event the lead regulatory agency operable unit

manager is not available, the responsible RL operable unit manager (or his designee) will contact the EPA or Ecology Project Manager. In the event the Project Manager is not available notification via voice mail may be made. An e-mail confirmation will also be sent from the RL operable unit manager (or his designee) to the Ecology or EPA operable unit manager or Project Manager confirming the notification.

Section 3.1.3 page 3-4 2nd paragraph: remove the first three sentences. Paragraph will start with "A sufficient number of containers are available to ensure uninterrupted excavation operations..."

Global changes:

Change "anomalous materials" to "anomalous waste" throughout document.

Change all references to "plastic lined roll-off container" to "appropriate container".

4.3.4.1 Unplanned Releases and Significant Events

Releases of residual liquids or solids from previously disposed wastes (e.g., buried drums) or abandoned pipelines are expected during remediation activities. Depending upon factors such as the hazardous substances involved, volume of material, location of the waste site, preexisting contamination levels, and receiving media, reporting to outside authorities or the lead regulatory agency may be required. Notifications to outside authorities will be made, when required, in accordance with DOE O 231.1A, regulatory requirements such as 40 Code of Federal Regulations 302 and Washington Administrative Code 173-303-145, and the provisions of this document.

4.3.4.1.1 Measures to Prevent Excessive Liquid Releases

During remediation activities reasonable efforts shall be made to prevent excessive releases to ground of hazardous liquids within pipelines. This will typically be done by placing collection devices (e.g., buckets, barrels, plastic liners) beneath the open end of piping known to contain liquids, then using excavation equipment to manipulate the pipe with the intent of draining any significant volumes of liquid into the collection devices. Due to the potential deteriorated nature of abandoned piping, other methods such as water or air flushing of pipelines will not routinely be performed, but may be used on a case-by-case basis.

4.3.4.1.2 Reporting of Releases

It is recognized that even with appropriate measures implemented to collect hazardous substances contained in previously disposed containers or pipelines, some amount of release to the ground is likely to occur as a part of normal remediation activities. The provisions of this section shall be used as guidance in determining reporting requirements for these events.

Reporting of Releases to the National Response Center: 40 CFR 302 requires notification to the National Response Center when a known release of a hazardous substance occurs from a facility in an amount exceeding a Reportable Quantity within a 24-hour period. However, in many instances remediation activities will encounter buried containers or piping that is deteriorated and has previously released hazardous substances into the environment. From a 40 CFR 302 reporting standpoint, it is necessary to distinguish these previous releases from new discharges initiated by the remediation activity itself. The following guidance is limited to release reporting for waste materials within the area of contamination (AOC). Releases occurring entirely outside the AOC must be evaluated as new releases for purposes of determining reporting under 40 CFR 302.

In excavating burial grounds, there is a high likelihood that unknown materials will be routinely encountered during excavation operations. These materials may include drums, bottles, or tanks that contain liquids or solids; process equipment with reservoirs that contain liquids or solids, previously disposed piping (either sealed or open-ended); and pockets or areas of discolored soil.

Unlike burial grounds, the hazardous substances encountered during excavation of abandoned pipelines are generally known; however, there is often uncertainty regarding the volume and concentration of residual liquid.

A release can consist of liquid or solid material. To be considered for release reporting under 40 CFR 302, the waste must have originated from within a container (e.g., drum, tank, bottle, piece of process equipment, piping) and must have been spilled/leaked to the ground as a result of new damage to a previously intact container caused by the excavation or removal process. Examples of events eligible for release reporting include loss of contents to the ground from containers (including pipelines) that were previously intact, but:

- Were damaged by heavy equipment during the excavation or removal process
- Fail or lose integrity during the process of rigging or picking the container to remove it from the dig face, transporting it to the staging area, and/or overpacking it into a salvage drum

Conversely, material that is spilled/leaked to the ground within the AOC as a result of pre-existing conditions (e.g., previously deteriorated or broken, leaking container) is excluded from release reporting under 40 CFR 302, including the following examples:

- Material that is not containerized when encountered at the dig face
- Material that is spilled/leaked to the ground from containers with open access to contents as unearthed and/or removed from the dig face (e.g., hopper, open-ended piping within a burial ground)
- Material that is spilled/leaked to the ground from containers with cracks and/or holes as unearthed and/or removed from the dig face
- For abandoned pipelines, releases of residual liquids caused by pipeline removal if the piping is corroded and deteriorated such that previous seepage of contents into the surrounding soil has occurred (Note: This provision does not preclude reporting of releases from long stretches [i.e., over 100 feet] of open-end piping when the piping is in good condition with no indication of previous leakage into surrounding soil).

Reporting of Releases Under WAC 173-303-145: WAC 173-303-145 requires immediate reporting of releases of a dangerous waste or hazardous substance into the environment if human health or the environment is threatened. Best professional judgment shall be used to determine if a release represents a threat to human health or the environment. For guidance purposes, a release occurring during remediation activities that is contained or stabilized to prevent dangerous exposure to humans or environmental receptors would not invoke reporting under WAC 173-303-145. Conversely, if the release is not contained/stabilized in a manner that prevents contamination of underlying groundwater, dangerous exposure to humans (e.g., via dermal contact, ingestion, or inhalation), or observed adverse impacts to environmental receptors, notification shall be made to the lead regulatory agency.

Reporting of Other Releases and Significant Events: Notification of events that are not reportable under 40 CFR 302 or WAC 173-303-145 may nevertheless be required under other provisions, such as reporting pursuant to DOE O 231.1A. Additionally, notification of significant events occurring during remediation activities shall be made to the lead regulatory agency within 3 working days. "Significant events" are defined as events involving a hazardous substance release (including releases within the AOC) or discovery of an unexpected liquid within a pipeline such that remediation activities are halted for over 3 working days while a revised remediation approach is developed. Minor events involving releases from containers (including pipelines) that are addressed without significantly impacting the progress of on-going remediation activities are not considered "significant events" subject to notification. Proposed response actions to significant events such as site stabilization pending reinitiation of remedial actions shall be discussed with the lead regulatory agency prior to implementation.

Attachment 12

125802

Donnelly, Jack W

From: Boyd.Alicia@epamail.epa.gov
Sent: Thursday, January 26, 2006 11:10 AM
To: Donnelly, Jack W
Subject: RE: 300-FF-2 Sampling Change for Approval

Jack
I concur with the language below for the 300 Area SAP. I also concur with not needing an air monitoring plan in place for confirmatory waste site sampling. Please submit this e-mail at the next 300 Area UMM to go on the record.
Alicia

Alicia L. Boyd
EPA Hanford Project Office
309 Bradley Blvd Suite 115
Richland, WA 99352
(509) 376-4919

"Donnelly, Jack
W"
<jack.donnelly@ch-rcc.com>

01/26/2006 09:54
AM

To
Alicia Boyd/R10/USEPA/US@EPA
cc
Subject
RE: 300-FF-2 Sampling Change for
Approval

Good morning Alicia:

Just checking to see if you can send an email approval to the agreement below. Thanks. I am just trying to close out items on my list. Thanks again.

Also, can you reply back on the email that we do not need the air monitoring plan for sampling confirmatory waste sites. You spoke with Larry and he confirmed this approach. Thanks again as well.

Jack Donnelly

-----Original Message-----

From: Donnelly, Jack W
Sent: Thursday, January 19, 2006 12:50 PM
To: 'Boyd.Alicia@epamail.epa.gov'
Subject: RE: 300-FF-2 Sampling Change for Approval

Good afternoon Alicia:

Here is the revised agreement for your approval. Again, I added the one additional sentence to the text to the first item to address your comment. Please let me know if this is acceptable. Thanks.

In the 300 Area SAP, Table 3-1, the current requirement in the column titled Key

Features/Sampling Frequency states, "One sample per 114.8 m3 (150 yd3)

of process soil." This language would change to state "Field screen using XRF every 114.8 m3 (150 yd3) of process soil. A sample shall be taken for laboratory analysis based on XRF results exceeding thresholds, as determined by the project waste specialist, or as requested by EPA. In the event that no samples are taken on a discrete staging pile as a result of any of the above, one sample at a minimum is required on each discrete staging pile."

In the 300 Area SAP, Table 3-1, the current requirement in the column titled Basis for Sampling Design states, "Frequency basis that approximates 1 sample per 10 waste containers." This language would change to state "Frequency basis that approximates 1 XRF field screening measurement per 10 waste containers."

While the sampling approach is not explicit in the SAP, you requested (from a process standpoint) to perform the XRF field screening on the every 150 cubic yards by taking a small core of material at some depth (approximately 6 to 12 inches) into the soil piles, spreading the cored material on the surface, then performing the XRF field screening measurement on the cored material. This will be performed. Good afternoon Alicia:

-----Original Message-----

From: Boyd.Alicia@epamail.epa.gov [mailto:Boyd.Alicia@epamail.epa.gov]
Sent: Thursday, January 19, 2006 11:45 AM
To: Donnelly, Jack W
Subject: Re: 300-FF-2 Sampling Change for Approval

Jack

I spoke with everyone involved and they all agreed with me that using XRF was a good idea. Your language looks good except for one point.

Please add to the 1st bullet that this sample for lab analysis shall be done at a minimum of once per discrete staging pile. Or something similar to that. Nobody could think of a good volume for requiring lab samples, but I would still like to have language that has a stated minimum that makes sure there is no current way to just quit sending in samples.

So I just got the lead based paint report on the house I'm looking at. The report had a huge section about the XRF machine used to check the paint. At least I knew what I was reading from what Rick had summarized... so thanks! :)

Alicia L. Boyd
EPA Hanford Project Office
309 Bradley Blvd Suite 115
Richland, WA 99352
(509) 376-4919

"Donnelly, Jack
W"

<jack.donnelly@w
ch-rc.com>

01/18/2006 11:31
AM

Alicia Boyd/R10/USEPA/US@EPA

To

cc

"Smith, Douglas C (Chris)"
<Douglas_C_Chris_Smith@rl.gov>

Subject

300-FF-2 Sampling Change for
Approval

125802

Good morning Alicia:

Thanks again for meeting with us yesterday to evaluate our proposal to remove the every 150 cubic yard sampling requirement from process soil.

Based on the meeting, the following points below are provided to you for approval:

In the 300 Area SAP, Table 3-1, the current requirement in the column titled Key Features/Sampling Frequency states, "One sample per 114.8 m3 (150 yd3) of process soil." This language would change to state "Field screen using XRF every 114.8 m3 (150 yd3) of process soil. A sample shall be taken for laboratory analysis based on XRF results exceeding thresholds, as determined by the project waste specialist, or as requested by EPA."

In the 300 Area SAP, Table 3-1, the current requirement in the column titled Basis for Sampling Design states, "Frequency basis that approximates 1 sample per 10 waste containers." This language would change to state "Frequency basis that approximates 1 XRF field screening measurement per 10 waste containers."

While the sampling approach is not explicit in the SAP, you requested (from a process standpoint) to perform the XRF field screening on the every 150 cubic yards by taking a small core of material at some depth (approximately 6 to 12 inches) into the soil piles, spreading the cored material on the surface, then performing the XRF field screening measurement on the cored material. This will be performed.

This is what recalled from our meeting and your key points. You indicated an email approval from EPA would document the agreement and we could enter into a unit manager meeting. Please let me know if you approve. Thanks again.

Respectfully, Jack Donnelly

Attachment 13

300 Area D4 Status
April 12, 2007
100/300 Area Combined Unit Manager Meeting

Hazardous Material Removal

- 324 – Hazardous material removal is ongoing.
- 327 – Hazardous material removal is ongoing.
- 337 – Hazardous material removal is ongoing
- 3706 – Hazardous material removal is ongoing.
- 3709 – Hazardous material removal is ongoing.
- 3745/3745A/3745B – Hazardous material removal is ongoing

Ready for Demolition:

- 3718E – Hazardous material removal is completed.
- 3731/3731A – Hazardous material removal is completed.
- 3707-H – Hazardous material removal is completed.
- 3720 – Hazardous material removal is complete.

Ongoing Demolition Activities

- 305/ 305-B - need to backfill
- 333 – load out is complete (excluding press)
- 306E – load out is on ongoing.
- 306W – is planned to begin once the demolition debris backlog is worked off.

60-Day Project Look Ahead

- Complete building debris load out from 333, 306E, and 306W
- Begin demolition of 3720.
- Begin hazardous material removal at 321, 328, 3746, and 3746A
- Address DOE and EPA comments on revision to RAWP #1 (consolidated scope from Action Memo #1, #2, and #3).
- Complete installation of temporary fencing around the southern portion of the 300 Area.
- Complete 305 and 305-B backfill

Attachment 14

100 Area D4 Status
April 12, 2007
100/300 Area Combined Unit Manager Meeting

Ongoing Demolition Activities

- 163-N/183-N – Above and below grade demolition complete, Load-out ongoing.
- MO-050/MO-358 – Above grade demolition complete. Load-out ongoing.
- 1312-N LERF – Inlet piping access/removal ongoing, liner load-out ongoing.
- 107-N – Subcontractor mobilizing for tank resin removal.
- 13N pad – Demolition ongoing.
- 1525N – Mobilizing to investigate and remove casks.

60-Day Project Look Ahead

- 1705-N/NA and 1706-N/NA load-out.
- 182-N Asbestos/Hazardous waste removal.
- 184-N/NA Hazardous material removal.
- Remaining 1802N Pipe to be shipped to ERDF.
- 117-N/NVH Air Filter Building/Valve Control House asbestos and filter removal.
- 1310-N Radioactive Liquid Waste Treatment Facility Asbestos removal/hazardous material removal and demolition prep.
- 1322-N/NA/NB/NC Waste Treatment Pilot Plant Asbestos removal/hazardous material removal and demolition prep.
- MO-829 removal to ERDF (currently in 100-D area).
- MO-055/MO-911 hazardous material removal and demolition.
- Integrate the ISS subcontract work scope under the 100 Area D4 Organizations.
- DOE and Ecology approval of 1312-N LERF backfill.

Attachment 15

**100/300 Area Unit Manager Meeting
April 12, 2007**

Interim Safe Storage (ISS)

D4/ISS Reorganization

ISS being merged with D4

- EPL = Dan Saueressig

105-N Reactor Facility/109-N Heat Exchanger Building & Related Facilities

Subcontract for asbestos and hazardous material removal

- Subcontract awarded to NCES/PAS
- Mobilization in progress:
 - Trailers placed
 - Electrical connections completed
 - Scaffolding starting to be erected next week
- Commence asbestos removal in May

105-N SSE and Demolition Subcontract

- RFP in preparation
 - Issue end of May
 - Receive bids in August
 - Award September/October

C Elevator Pit

- Planning in progress for:
 - Containment tent installation
 - Initial entry for engineering, health, safety, and radcon inspections/surveys
 - Later entries for Pit Water/Sediment Sample Collection

Fuel Storage Basin

- Planning in progress for:
 - Rad sampling and analysis

Attachment 16

**End State and Final Closure
UMM Status
April 12, 2007**

Long-Term Stewardship

- *Planning for the Transition to Long-Term Stewardship Under the River Corridor Closure Contract* (WCH-134) draft A document is undergoing regulator review.

Orphan Sites Evaluations

- *100-D Area Orphan Sites Evaluation Report* (OSR-2006-0001) draft A document is undergoing concurrent review with RL and Ecology.
- Evaluations are in progress for 100-IU-2, 100-IU-6, 100-H, and 100-K. Design approach for historical review and field investigation to support inter-areas orphan sites evaluation (~122,000 acres) is in progress.

100/300 Area RCBRA Component

- Work continues on completion of the 100 Area and 300 Area Component of the RCBRA. A workshop to discuss the draft risk assessment with Tri-Parties and stakeholders will be held on May 16, 2007. The web-based risk assessment data interface is available – Contact Steve Weiss for access.

Inter-Areas

- Sampling activities are in progress – Collection of riparian mammals and invertebrates is underway.

Columbia River Component

- Recent discussions with the Tri-Parties about the results of the CRC data compilation and evaluation results indicate a path forward to include an existing data gap analysis to help identify the potential sampling needs. The evaluation is anticipated to conclude late May or early June.

RCC End State and Final Closure Project
Risk Assessment - Document and Involvement Look Ahead
April-07

Task	Document	Activity	Status	Target Start Date	Regulator Review	Target End Date
100 & 300 Area Component	100 Area and 300 Area Component of the RCBRA	Risk Assessment Report in Development	In Progress	1-Apr-06	June 25 through Aug 8	22-Oct-07
Meetings/ Workshops		Trustee Call-in/Project Managers	Planned	12-Apr-07		
		Risk Assessment Project Managers	Planned	26-Apr-07		
		Trustee Call-in/Project Managers	Planned	10-May-07		
		Risk Assessment Project Managers	Planned	24-May-07		
		Trustee Call-in/Project Managers	Planned	14-Jun-07		
		Risk Assessment Project Managers	Planned	28-Jun-07		
		103 Area and 300 Area Risk Assessment Workshop	Planned	16-May-07	In Richland	

Attachment 17

Date: April 12, 2007

Project: ESFC: Inter-Areas Component of the River Corridor Baseline Risk Assessment

The following discussions took place over the course of sampling events as they occurred and are documented in the UMM meeting minutes per Ecology's request. Dates represent the day of agreement with the regulatory agencies.

Agreements:

January 22, 2007

1. Administrative change on Table E-2 of the SAP (DOE/RL-2005-42): nitrate was removed from analysis for clam tissue. This was a typographic error carried over from an early draft of the SAP. (Potential nitrate analysis for plant tissue remains under review).

January 22, 2007

2. If sufficient clam and mussel tissue mass are retrieved, radiological analyses will be performed although not required per the SAP.

January 22, 2007 (EPA) and March 21, 2007 (Ecology)

3. Three attempts to measure conductivity from a vertical porewater tube at the RCBRA Cr #6 sample location at the 100-D Area were made with no success. The vertical porewater tube would repeatedly block with sediment during purging. Statistical analyses were run on 5 other vertical-horizontal tube comparison sites. This satisfied the intent of the EPA's request for information.

February 14, 2007 (Ecology) and February 15, 2007 (EPA)

4. Due to the Bald Eagle nesting site located adjacent to RCBRA 2j Aq, boat access to the fish sample location was restricted; a sample was collected approximately 700m south and outside of the required buffer zone.

February 27, 2007

5. Because site RCBRA Bev Ref 2 didn't contain enough fish mass for a complete sample; an additional reference site for sucker was identified (RCBRA Ver Ref 1), thus providing two reference locations for sucker and two for sculpin. Sampling site RCBRA Ver Ref 1 is located southeast of the Vernita Bridge.

March 8, 2007

6. Initial deployment of macroinvertebrate baskets at site RCBRA 2j Aq was delayed due to compliance with Bald Eagle Nesting designation. Macroinvertebrates baskets will remain in place for a minimum of 90 days at site RCBRA 2j Aq. Macroinvertebrates were also opportunistically sampled at this location as allowed in the approved SAP. Analysis for macroinvertebrates remaining in the baskets will remain separate from those opportunistically collected, per Ecology's request.

Donnelly, Jack W

From: Price, John (ECY) [Jpri461@ECY.WA.GOV]
Sent: Tuesday, April 17, 2007 4:30 PM
To: Gadbois.Larry@epamail.epa.gov; Donnelly, Jack W
Cc: Rochette, Elizabeth; Sands, John P
Subject: RE: UMM last Thursday

Ecology also approves these changes for documentation through the UMM.

-----Original Message-----

From: Gadbois.Larry@epamail.epa.gov
[mailto:Gadbois.Larry@epamail.epa.gov]
Sent: Tuesday, April 17, 2007 2:52 PM
To: Donnelly, Jack W
Cc: Price, John (ECY); Rochette, Beth (ECY); John_P_Sands@RL.gov
Subject: RE: UMM last Thursday

EPA approves these changes for documentation through the UMM.

Good morning Larry and Mandy, and John:

End States has received some recent agreements with EPA and Ecology on a few matters, and they wished for this information to be captured in the UMM. Attached is what they gave me to document some recent agreements.

Do you have any objection to adding this to the UMM for last week? The meeting was long and a few folks left and I forgot to include this so I will take the heat. Please let me know. Thanks.

(See attached file: winmail.dat)

(See attached file: Agreements noted in 4-12-07 UMM.doc)